CEO's Ouster Shines

Spotlight on Siebel's Ills CRM pioneer struggles to stop buffeting by rivals; some customers seek better treatment

BY MARC L. SONOIN Last week's ouster of J. Michael Lawrie as CEO of

Siebel Systems Inc. was viewed by users and analysts as more evidence that the CRM market leader is still struggling to respond to increased competition - and to live up to yows that it

would belo customers get more value from Siebel users likely face even more upheaval. The compamy's exact future course was left unclear in the wake of Lawrie's abrupt departure

less than a year after be was hired, following a weak firstquarter financial showing. But new CEO George Shaheen said his priorities will include cost-cutting and a re-sizing of Siebel as part of an attempt to boost its financial results.

Bonnie Henn-Pritchard, assistant vice president of technology services at

E-voting May The Burlington Northern and Santa Fe Railway Co. in Fort Face Recall in Worth, Texas, said sudden senior management changes are always disconcerting to users. But, she added, "if a change in

Florida County IT snafus lead to look at optical scanning

leadership will help Siebel to

refocus on the fundamentals

of product quality, customer service and delivery commit-

That notion was seconded

by David Hahmann, vice pres-

ident and general manager of

EMI Industries Inc., which runs a midmarket version of

Siebel's call center software.

The application is working as

Siebel, page 49

ments, it will be a positive

move for customers."

By mane a noments Ongoing technical glitches are prompting election officials in Florida's Miami-Dade County to consider scrappi a \$25 million investment in

electronic voting systems. Infamous for the hanging chad controversy in the disputed 2000 presidential elec-tion. Mismi-Dade now uses touch-screen technology

from Omaha-based Election Systems & Software Inc. that were installed in 2002 to replace its punch-card ma-chines. But coding errors by county personnel caused the



Ideal Indiana III and II and II alia Indiana II

80294945/CB/78 CH200516

MIN ARBOR HE 48106-1946

SEXTE STET CONSTRUCT

UMI

PERIODICAL S PO BOX 1846

Military Aims To Marshallts

Registry rollout will link apps across units

Two years after individual U.S. Department of Defense ncies began developing plications, the DOD is ramping up efforts to make hundreds of Web services available to end users throughout

stalling Web services registry technology from Burlington, Mass-based Systinet Corp. at its enterprise computing cen-ter in Columbus, Ohio. Slated to go into production this ner, the registry is intended to allow developers across the department to lo-

cate specific Web services. The Defense Information Systems Agency will begin cataloging Web services developed by the U.S. Air Force. DOD, page 14

ORE ON THIS TOPIC

Web Services

104-4

BY HEATHER HAVENSTEIN

eb services to integrate ap-

7:02 am





imageRUNNER 4570

If you could create, manage, and share abcuments on paper or over the network, imagine what you could accomplish with your day. With Cannon's latest addition for the imageRUNNER's line, every day's potential can be resilized. With the new imageRUNNER 4570, Canno gives you enother immorative solution to securiesely integrate the paper world with the digital world. And the imageRUNNER 4570 can be tailored to meet your business needs. In other worlds, when you choose site new imageRUNNER 4570, you choose to work the way you need to.

www.imagerunner.com 1-800-OK-CANON



CONTENTS



Hammering Out Web Services Links In the Technology section: Verizon has just completed an SOA project, dubbed the IT

completed an SOA project, dubbed the IT Workbeech. The new technology enables the company to save on development costs by reusing applications distributed as Web services, says Verizon's Shadman Zafar. Page 29



What IT Women Want

In the Management section: A virtual roundtable of high achievers tells Computerworld that in today's business-oriented climate, women can fill in the peek gaps that separate IT from its customers. Here's what IT managers need to do to get women and keep them. Page 33

04.18.05

NEWS

- A retailer's IT security breach prompts HSBC Holdings to warn 180,000 credit card bolders of possible identity theft.

 Naw RFID tags are expected.
- to lead to lower costs, but that could take years.

 7 Sun preps utility IT tools but will keep them oo its own
- will keep them oo its own hardware — at least initially. 10 SAS users are skeptical of
- the veodor's year-old effort to expand BI to business users.

 10 ABN Amro applies [T] portfolio
- ABN Arro applies IT portfolio management oo a global scale.
- 11 Storage Networking World: The demand for more storage capacity is outpacing the available technology, say conference attendees: plus product news and a Q&A with HP's Ann Livermore.
- 14 Global Dispatches: China and India strive toward creating an "Asian century" for IT.
- 16 IT firms in India are creating a creatral repository for background data on tech workers.

ONLINE
ONLINE
ONLINE
DEPARTMENTS
Peninty Nore

Quadala 4 5000

Venerative Statesteran

Venerative Stat

OPINIONS

- On the Mark: Mark Hall reports that some makers of the boards that power security appliances think the PowerPC could help integrate all the network security tasks that IT managers have to support.
- 24 Don Tannant says oo ooc has done more to improve lives all over the world than U.S. technology pros — a fact that seems at odds with the antioffshore fervor.
- 24 Thornton A. May lame ots that much of the world can't see the individuality that marks IT professionals.
- 25 John Parker sees cootinued importance for IT, but he says tech organizations and workers must make adjustmeets.
- 31 Robert L. Mitchell thinks social bookmarking services could hold the key to how organizations access data inside and outside the firewall.
- 35 Barbara Gomolski offers some creative strategies for getting that first break in a job hunt.
- 50 Frankly Speaking: Frank Hayes says CRM as we know it is dead. Little wonder, then, that Siebel is in big trouble. DEPARTMENTS/RESOURCES



g retirement. ACMAGE BERRIS DN PAGE 37.

> heak into the IT field, carner changers and recent college gunhance such an Bentley Colings abunates Serve Karner (10ft) most to al and premote what moles

> > draw, To transport motion motion motion motion

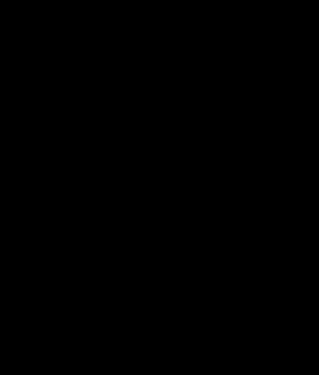
York University's chiinformation technology officer, is learning all he can about business.

42 Hearing Retirement. T professionals head-

CIO at Saint Luive Health System, are working harder the ever. Their goals are to stay current and grow their shifts, while planning for the next phase of

> the Career expert Johanna thann offers a step-by-step plan for taking

> > cancer at every sings of year professional Mr. Plea, we had at some common conter minutes and office advice on hour to





Hammering Out Web Services Links

In the Technology section: Verizon has just completed an SOA project, dubbed the IT Workbench. The new technology enables the company to save on development costs by reusing applications distributed as Web services, says Verizon's Shadman Zatar Page 29 04.18.05



What IT Women Want

In the Management section: A virtual round table of high achievers tells t omputerworld that in roday's business-oriented climate, women can fill in the gook gaps that separate 11 from its customers. Here's what H managers need to do to get women and keep them Page 33

NEWS

- A retailer's IT security breach prompts HSBC Holdings to warn 180,000 credit card holders of possible identity theft. New RFID tags are expected
- to lead to lower costs, but that could take years. Sun preps utility IT tools but
- will keep them on its own hardware - at least initially SAS users are skeptical of
- the vendor's year-old effort to expand BI to business users. 11. ABN Amro applies IT portfolio
- management on a global scale. Storage Networking World
- The demand for more storage caracity is outpacing the available technology, say conference attenders: plus product news and a Q&A with HP's Ann Livermore.
- 14 Statut Despatches, China and India strive toward creating an "Asian century" for IT.
- 16 IT firms in India are creating a central repository for background data on tech workers.

ONLINE

DEPARTMENTS Breaking News O OutchLink a1510 C Dairell ink a1630 vine Centers dokt.ink s2570

C QuickLink #2420

At Deadline Briefs News Briefs IT Careers Company Index

How to Contact CW Shark Tank

OPINIONS

- 8 On the Mark Mark Hall reports that some makers of the boards that power security apphances think the PowerPc could help integrate all the perwork security tasks that I'll managers have to support
- 24 Don Tennant says no one has done more to improve lives all over the world than U.S. technology pros - a fact that seems at odds with the antioffshore fervor.
- 24 Thornton A. May laments that much of the world can't see the individuality that marks IT professionals.
- 25 John Parker sees continued importance for IT, but he says tech organizations and workers must make adjustments.
- 31 Robert L. Mitchell thinks social bookmarking services could hold the key to how organizations access data inside and outside the firewall.
- 35 Barbara Gomolski offen some creative strategies for ectting that first break in a iob hunt.
- 50 Frankly Speaking: Frank Haves says CRM as we know it is dead. Little wonder, then, that Siebel is in big trouble

OEPARTMENTS/RESOURCES 46

EDITOR'S NOTE: This 2005 handbook is full of advice to help you take charge of your IT career. whether you're just getting start-

KNOWLEDGE CENTER ed, stalled out at midcareer or near-CAREERS

ing retirement. PACKAGE BEGINS ON PAGE 37. 38 Getting Started, To

break into the IT field career changers and recent college graduates such as Bentley College alumnus Steve Kearns (left) need to find and promote what makes

them special. 40 Midcareer Kickers. To expand their advanceent opportunities and jump-start their ers, IT workers st broaden both tir technical and ess skills. Sean son (right), New

erts that or

pet a foot in



York University's chief information technology officer, is learning all he can about busipres

42 Nearing Retirement. IT professionals heading toward retirement. like John

C1O at Saint Luke's Health System, are working harder than ever. Their goals are to stay current and grow their skills, while planning for the next phase of their careers

(right).

44 Opinion: Career expert Johanna Rothman offers a step-by-step plan for taking charge of your career at every

stage of your pr ssional life Phos we look at some common career missteps and offer advice on how to avoid them.

Need Help With Your Career?

IBM Results Fall

Below Expectations RM involved Wall Street for a the and of the querter



Microsoft to Post VS 2005 Beta 2

selt Corp. will post the d Studio 2005 Beta 2 for ed this week, said John mary, director of product ent in the developer direport will also provi nee for users who want to put applications into produ on top of the bota software icrosoft said it still expects to se VS 2005 in the second half

Worm Brings Down Reuters IM System ders Group PLC brought its

Sun Reports Another **Quarterly Loss**

ed flat revenue and a loss in its third quarter. CEO Scott McHes put a positive spin on the results, citing for larger leases last year.



AT DEADLINE Breach of Credit Data May Have Broad Scope

breach, the latest in a string

have come to light since late

of security incidents that

February, MasterCard and

Visa said that in turn, they

have informed unspecified

HSBC warns 180k of possible ID thefts: other banks also aware of security gaffe

N IT SECURITY problem involving a U.S. retailer's point-ofsale system (POS) is prompting HSBC Holdines PLC to warn 180,000 of its credit card holders about potential identity theft. And the breach could cause other comnanies that itsue credit cards to take similar actions

were potified of the systems

numbers of banks and credit card companies about the possibility that data was MasterCard Internation Inc. and Visa U.S.A. Inc. both confirmed last week that they

Discover Financial Services Inc. said some of its card bolders have also been affected. And American Express Co. said it's aware of the inci-

dent but has yet to see "any Security Tools Not Enough, Say Execs

In a statement sent via e-mail. Polo Raleh Lauren Corp. confirmed that its POS system stored credit card data instead of purging it immediately after transactions were completed. The statement also noted that the New Yorkbased retailer has

its cards.

ORF ON INF For full coverage of the recent method IT security incidents. go to our Web site. C) DuickLink k1800 been working with law enforcement officials and credit card companies since last fall to deter-

mine the origin and extent of the data compromise. Polo Raleb Lauren said that after learning about the retained information, it "took immediate steps to purge this data and cure the problem." The retailer said it's confident that its credit card system is secure and that customer data

is properly protected. It declined to comment further. Reviewing Strategies Incidents such as this one are forcing many security managers to review their strategies. for protecting data, said Howard Schmidt, chief info

mation security officer at eBay Inc. and a former White House cybersecurity adviser "I know a number of CSOs

who are setting calls from their executive ranks wanting to know if the same things could happen to them,"

Schmidt said. What's needed is a multi-

faceted plan that addresses various threats, said David Wallace, director of global systems security at Pilgrim's Pride Corp. in Pittsburg. Texas. The recent compro mises have been executed through different methods, in-

cluding social engineering, hardware theft and hacking, he noted Wallace also pointed to the notential for insider abuse of system-

access privileges. Thomas Nicholson, a spokesman for Prospect Heights, IIL-based HSBC North America Holdings Inc. said the POS problem affected all credit card transactions conducted at Polo Ralph Lauren between June 2002 and last December, "It's a POS issue," he said, "We just happened to be the first bank to notify customers of the risk."

According to Nicholson, MasterCard informed HSBC of the problem in February and identified customers who may have been affected. HSBC North America, a division of London-based HSBC Holdings, last Monday started asking holders of its General Motors-branded MasterCard who were on the list to replace

their cards. O 53820 Other Recent Data Losses

Price of New RFID Tags Must Fall Fast For Users to Reap Rewards, Execs Say

Generation 2 technology is due later this year, holds promise to lower costs

An emerging generation of radio frequency identification tags promises reduced costs for manufacturers that have to put REID labels on pallets and cases for retailers such as Wal-Mart Stores Inc. and

Turert Com But that can't happen soon enough for many suppliers. Some IT executives said at last week's RFID Journal Live conference here that they have been studying business cases

and exploring ways to use RFID data, and they have concluded that benefits won't materialize until tag costs dip below 10 cente "What Gen 2 is spring to do. hopefully, is get everybody to use the same standard and

consequently drive down the costs," said Gary Cooper, chief technology officer at Tysoo Foods Inc. "I need the cost to really drop because we're moving hundreds of millions of cases a year and we're a fairly low-margin business lust do the math: 20 cents times hundreds of millions."

Return on Investment Cooper said that about 90%

of the pallets and cases Tyson ships to Wal-Mart's Dallasnow tagged. He added that Springdale, Ark.-based Tyson has developed business-case models showing a payoff from RFID by late next year or, more probably, in 2007. But tag costs have to hit the single digits for the company to see a

return on investment, he said. EPCglobal Inc., a not-forprofit organization that estab lishes and promotes RFID technology standards, finalized the UHF Generation 2 standard in December, and the new tags are expected to be-

come available later this year. Tag makers, consultants and retail IT analysts said it could take anywhere from one to five years for the cost of Gen 2 tags to drop to 10 cents each. Edwin Matthews, director of

information services at Pacific Cycle LLC in Madison, Wis., said that if tag costs don't drop to 7 cents within the next 18 to 24 months, he will need to "have discussions" with the retailers that are requesting usage of RFID technology. Matthews said that he has no quibble with the mandates



on the RFID bandwaron to help drive up volume and lower the price of tags. "The cost." he noted, "truly is the tags."

Business Cases Solidity Jeff Woods an analyst at Gartner Inc., said tag cost has become a much bisser issue than it was nine months ago, now that some suppliers have developed potentially solid business cases for RFID. business cases were hope and

"Six to nine months ago, the faith," Woods said. "Today. we've got some reasonable leads on what the business cases would be, but they don't have a chance of clearing

the existing tag costs." For suppliers that ship only a small percentage of tagged pallets and cases to Wal-Mart.

the payoff is farther away. There's not much use to the data until we can set to higher volumes," said an RFID project manager at a large maker of consumer products that is shipping only a limited

amount of tagged cases and pallets to Wal-Mart. But large volumes won't be feasible until tag prices sink to the single digits, added the project manager, who asked not to he identified

"This is the ultimate chickenand-egg scenario," said Dennis. Gausehan, an analyst at AMR Research Inc. in Boston "More people won't do RFID until the tax costs come down, but the tag costs won't come down until more people do it. These guys are in a bad situation."

none of the vendors has it risht

of technical support at Boscov's

yet," said Joe Poole, manager

41-store retail chain based in

Reading, Pa. He added that

"nobody is really telling us

what we need" to marshall

computing resources on an

as-needed basis, other than

Sun had indicated a year ago

that it was backpedaling on its

grand vision for making NI in-

teroperable with other hard-

ta Inc. in Nashua, N.H. Com

pany executives "realized how

hard it is to do on-demand on

But management tools that

can control a range of system

components from multiple vendors are already being sold

by companies such as IBM.

a broader scale," he said

ware platforms, said lonathan Eunice, an analyst at Illumina-

network monitoring tools.

Department Store LLC, a

Sun Readies New Utility Computing **Tools but Limits Hardware Support**

Savs it will first support apps on its systems only

Sun Microsystems Inc. in the next 60 to 90 days will an-

nounce new and upgraded utility computing tools designed to help users deploy software and monitor applications, among other tasks. But the products will initially run only on the company's own hardware, a Sun executive said last week

The planned announcement comes nearly a year after Sun de-emphasized the marketing of the existing versions of its NI utility computing software, said John Loiscone, the company's executive vice president for software. He added, though, that Sun has contin-

ued to develop scaled-down releases of the technology "We had fallen prey to the hype," Loiscono said. "We've taken the NI effort and drasee, utility and on-demand computing was going to boil the ocean and solve world hunger, but we've decided we're going to feed our family before we feed the world."

At first, the new tools will work on Sun hardware runnine Solaris 10 or Red Hat Linux, Loiacono said. Sun will build in support for hardware from other vendors later, but that won't happen this year, he added.

The tools, includine one code-named Hot Dog that Sun is now beta-testing. will provide systems and application management capabilities, such as provisioning of servers run-

ning Solaris and Red Hat and automatic installs of software patches and updates. lames Dobson, a systems as chitect at Dartmouth College in Hanover, N.H., is testing

like to use the software to control 64 dual-processor IBM servers that the school recently purchased. The Opteronbased systems are distributed among different departments on the Dartmouth campus and are mutinely used as

shared resources for complex scientific computations. Dobson noted.

though, that he will apparently have to wait until next year for a multivendor vertion of the software, "Sun has son great products, but they have all kinds of fun, grandiose vi-

sions that don't work very well with other vendors' products," he said. Several users questioned the reality of the on-demand

vision that's bring espoused by IT vendors. "We absolutely have a need for on-demand computing, but

Hewlett-Packard Co. and Computer Associates International Inc., according to Eunice and other analysts. O 53774 DE AN MORE AND ME

IBM Results Fall **Below Expectations**

IBM knocked Wall Street for a loon by announcing first-quarter earnings significantly short of analvsts' expectations. Executives cited difficulties closing deals at the end of the quarter.



Microsoft to Post VS 2005 Beta 2

crosoft Corp. will post the sual Studio 2005 Beta 2 for and this week, said John rry, director of produ ment in the developer division. Microsoft will also provide a license for users who want to put applications into production on top of the beta software. oft said it still expects to ship VS 2005 in the second half

Worm Brings Down Reuters IM System Reuters Group PLC brought its

online Friday, after an outbreak of the Kelvir worm prompted ider to shut down the syst for a day. Reuters detected the al worm coming though a

Sun Reports Another **Quarterly Loss**

The rough ride continues for Sun stems Inc., which reco ed flat revenue and a loss in its third quarter, CEO Scott McNealy put a positive spin on the results, citing far larger losses last year.



AT DEADUNE | Breach of Credit Data May Have Broad Scope

breach, the latest in a string

have come to light since late

of security incidents that

HSBC warns 180k of possible ID thefts: other banks also aware of security gaffe

N. ET SALESTEY (reply Jem involving a U.S. retailer's point-ofsale system (POS) is prompting HSBC Holdings tential identity theft. And the breach could came other companies that issue credit cards to take similar actions. MasterCard International

were notified of the systems

behnury MasterCard and Visa said that in turn, they have informed unspecified numbers of banks and credit card companies about the possibility that data was compromised Discover Financial Services Inc. said some of its eard Inc. and Visa U.S.A. Inc. both

holders have also been affect ed And American Express confirmed last week that they Co. said it's aware of the incident but has yet to see "any

Security Tools Not Enough, Say Execs

SECURITY TOOLS play an miportant role in helping to protect composte data But technology fixes address only part of the overall security problem, according to several IT managers

Technological breakdowns are rarely the source of the breach," said Tim O'Pry, chief technology officer at The Henceler Financial Group in Manetta, Ga. "More often than not, it's good old-fashioned

human frailtes Addressing that issue often requires companies to increase their investments in user awareness, training and education. said Matt Kesner, CTO at Fenwirk & West I I P a law firm in Mountain View, Calif.

Security managers "pay lig service to the issue but don't do a good job of training our users and employees," Kesner said. "A lot of people, even in servior positions, aren't aware of the threat every time you attach a computer to the internet

Arshad Noor, CEO of Strong Auth Inc., a vendor of identity and compliance management software and services in Cupe tino, Calif., said security risk

entigation efforts should be integral to every new IT instative "If a business und doesn't address potential vulnerabilities. in its processes before it introduces a product to the made) it's not doing its job." Noor said

The same is true when IT systems and applications are being designed, he added From a technology stand point, the recent security incdents at several comp bushlight the need for IT mon agers to locus on end-user authentication and identity

menagement, said Howard Schmidt, eBay's chief information security officer Schmidt said he thinks that in the future, companies will need to use more-robust twofactor authentication look to

vet access to confidential data There's also an urgent need for companies to pay more atlention to protecting stored data in addition to controlling network access, said Gartner Inc. analyst John Pascatore The biggest attacks are taking place at the point where data is

red." he noted. - Jakamar Van

es cards

In a statement sent via e-mail, Polo Ralph Lauren Corp. confirmed that its POS system stored credit card data through different methods, ininstead of purging it immediately after transaccluding social entions were com-MORE ONLINE pleted. The state ment also noted that the New York-

go to our Web site O QuickLink k1600

officials and credit card companies since last fall to determine the origin and extent of the data compromise Polo Ralph Lauren said that after learning about the retained information it "took immediate steps to purge this data and cure the problem." The retailer said it's confident that its credit card system is

common and that contamer data is properly protected. It declined to comment further. **Reviewing Strategies** Incidents such as this one are forcing many security man-

been working with

agers to review their strategies for protecting data, said Howard Schmidt, chief information security officer at eBay Inc. and a former White House cybersecurity advises

Other Recent Data Losses

and holders of its General Motors-branded MasterCard who were on the list to replace "I know a number of CSOs their cards. O 53820

who are getting calls from their executive ranks wanting to know if the same things could happen to them." Schmidt said.

What's needed is a multifaceted plan that addresses various threats, said David Wallace, director of global systems security at Pilgrum's Pride Corp. in Pittsburg. Team The recent company mises have been executed

> gineering, hardhacking, he noted. Wallace also pointed to the potential for insider

spokesman for Prospect Heights, III. based HSB0 North America Holdings Inc., said the POS problem affected all credit eard transactions conducted at Polo Ralph Lauren between June 2002 and last December, "It's a POS issue," he said "We just happened to be the first bank to notify customers of the risk." According to Nicholson, MasterCard informed HSBC of the problem in February and identified customers who may have been affected, HSBC North America, a division of London-based HSBC Holdings, last Monday started ask

access provileges.

Thomas Nicholson, a

Price of New RFID Tags Must Fall Fast For Users to Reap Rewards, Execs Sav

Generation 2 technology is due later this year, holds promise to lower costs

radio frequency identification tacs promises reduced costs. for manufacturers that have to put RFID labels on pallets and cases for retailers such as Wal-Mart Stores Inc. and

Tarnet Corp. But that can't happen soon enough for many suppliers. Some IT executives said at last week's RFID Journal Live conference here that they have been studying business cases and exploring ways to use RFID data, and they have concluded that benefits won't materialize until tag costs Jip

What Gen 2 is going to do. hopefully, is not everybody to use the same standard and consequently drive down the costs," said Gary Cooper, chief technology officer at Tyson Foods Inc. "I need the cost to really drop because we're moving hundreds of millions of cases a year and we're a fairly low-margin business. Just Jo the math: 20 cents times bandrody of millions

below 10 cents.

Return on Investment Cooper said that about 90%

of the pallets and cases Tyson ships to Wal-Mart's Dallassees distribution centers are now targed. He added that Springdale, Ark-based Tyson has developed business-case models showing a payoff from RFID by late next year or more probably, in 2007, But tag costs have to hit the single digits for the company to see a neturn on investment, he said.

EPCelobal Inc., a not-forprofit organization that establishes and promotes RFID technology standards, final ized the UHF Generation 2 standard in December, and the new tags are expected to beGeneration 2 RFID Tags m ARE EXPECTED to reduce

costs by driving users to a single technology standard. ADDRESS frequency and are preventing global usage

a CAN BE READ more quickly than current devices. » INCLUDE a "dense reader mode that minimizes tag and reader interference. · ARE fully rewritable.

on the RFID bandwagon to help drive up volume and low er the price of tags. "The cost," he noted. "truly is the tags."

Business Cases Solidify leff Woods, an analyst at Gari ner Inc., said tag cost has become a much biaser issue than that some suppliers have de

veloped potentially solid busi ness cases for RFID Sex to none months ago, the business cases were hope and faith." Woods said. "Today. we've got some reasonable leads on what the business cases would be, but they don't have a chance of clearma

the existing tag costs." for suppliers that ship only a small percentage of tagged pallets and cases to Wal-Mari. the popult is further away.

the data until we can get to burber volumes," said an REID project manager at a large maker of consumer products that is shipping only a limited amount of tagged cases and pullets to Wal-Mart. But James volumes mum't be teasible until tag prices sink to the smele digits, added the project manager, who asked not to be

"This is the ultimate chicken and one wenaria "said Dennis Gaughan, an analyst at AMR Research Inc. in Boston, "More people won't do REID until the tag costs come down, but the tag costs won't come down until more people do it. These guys are in a bad situation." O 53908

Sun Readies New Utility Computing **Tools but Limits Hardware Support**

Says it will first support apps on its systems only

come available later this year

retail IT analysts said it could

five years for the cost of Gen 2

Edwin Matthews, director of

tags to drop to 10 cents each.

Cycle LLC in Madison, Wis.

to 7 cents within the next 18 to

24 months, he will need to

"have discussions" with the

resailers that are requesting

no onibble with the mandates

usage of RFID technology.

take anywhere from one to

BY MATT HAMBLEN Sun Microsystems Inc. in the next 60 to 90 days will an nounce new and uperaded utility computing tools desamed to help users deploy software and monitor applications, among other tasks. But the products will initially run only on the company's own hardware, a Sun executive

said last week The planned announcement comes nearly a year after Sun de-emphasized the marketing of the existing versions of its NI utility computing software. said John Luiacono, the company's executive vice president for software. He added, though, that Sun has contin-

ued to develop scaled-down releases of the technology. "We had fallen prey to the hype," Loiacono said. "We've taken the NI effort and draago, utility and on-demand computing was point to boil the ocean and solve world hunger, but we've decided we're going to feed our family before we feed the world." At first, the new tools will work on Sun hardware run nine Solaris 10 or

Red Hat Linux, Loiacono said. Sun will build in support fur hardware from other vendoes later, but that won't happen this year, he added. The tools, including one code-named Hot Dog that Sun is now beta-testing.

will provide systems and application management capabilities, such as provisioning of servers running Solaris and Red Hat and automatic installs of software

patches and updates. James Dobeon a systems or chitect at Dortmouth College in Hanover, N.H., is testing

Most thou and said he would like to use the software to con trol 64 dual-processor IBM servers that the school recently purchased. The Opteronbased systems are distributed amone different departments on the Dartmouth campus and are routinely used as

shared resources for complex scientific computations.

though that he will annountly have to wait until next year for a multivendor version of the software. "Sun has some great products, but they have all kinds of fun, grandiose visions that don't work

very well with other vendors' products," he said. Several users questioned the reality of the on-demand vision that's being espoused by IT vendors.

"We absolutely have a need for on-demand computing but

none of the vendors has it right vet," said fee Poole, manager of technical support at Boscov's Department Store LLC, a Reading, Pa. He added that 'nobody is really telling us what we need 'to marshall computing resources on an as-needed basis, other than network monitoring tools.

Sun had indicated a year ago that it was backnedaline on its grand vision for making NI interoperable with other hardware platforms, said Jonathan Eunice, an analyst at Illumina ta Inc. in Nashua, N.H. Company executives "realized how

a broader scale," he said. But management tools that can control a range of system components from multiple vendors are already being sold by companies such as IBM. Hewlen-Packard Co. and Computer Associates International Inc., according to Eunice and other analysts.

READ MORE ON THE

0 53774

creating go to our Web site

ter thermals" com-

saying they let his

Putting more pro-

cessing power on a

intrusion detection, virus

PowerPC-based

security x4

from Biyis

protection and possibly com-

Microsoft, Gateway Reach Settlement

soft Corp. and Bateway Inc. have agreed to settle all past legal es arising from the U.S. antitrust case against the software maker. Microsoft will pay Gate-way \$150 million over four years to market and develop products that run its software. In exchang ine, Calif.-based Gateway is ing all antitrust claims

AMD Blames Flash Memory for Losses

wing losses from its Spansker et less at Advanced Micro De-ices Inc. The Sunsyale, Calif.-nased chip maker also disclosed es to spin off its share of the



Apple Schedules OS X Tiger Ship

de Computer Inc., said its no generation operating system, Ma OS X Tiger, will start shipping on get 29. The \$129 operation is said to include huns B of memory and can run on Macintosh competers' Pour PC 63, 64 or 65 processors.

Cisco Buys Toosoin For \$250 Million

Suco Systems Inc. has agreed to revider Topapin Communication n. for \$250 million in cash and offices. Mountain View, Calif. l Topopin solis progra lif and Son life

C ON THE MARK

HOT TECHNOLOGY TRENDS, NEW PRODUCT NEWS AND INDUSTRY BUZZ BY MARK HALL



PowerPC Gives Edge to Security.

... appliances that must instantly evaluate the dangers in the endless streams of network packets. Some developers claim that the PowerPC, a general-purpose microprocessor that was designed by IBM and Motorola Inc. and that Apple Computer Inc. has long used in

its Macintosh systems. has distinct advantages when it comes to security monitoring and anagement over, say, Intel Corp.'s CPUs. In part, that's because of the PowerPC's more liberal caching scheme, says Dave Lann, chief technology

cer at Seaway Networks Inc. in Ottawa, Lapp says designers like him can engineer the chip's specialized Level 3 cache to inspect packets without having to wait for data to transfer in and out of the computer's memory. That makes the technology ideal for nanning network security

software, Lapp says, Lapp's company sells boards with the PowerPC and proprietary application-specific chips for use by security appliance

Bivio Networks Inc. in Pleasanton, Calif. competes with Seaway, ing specialized security ha were that's also based on the PowerPC Paul Leisenberg



step in that direction, "It's not the death knell for the specialized appliance, yet," Lapp concludes, "But in five years, we'll look back and wonder why everything was sepa-

Juggling open-source software stacks . . .

... isn't fun. That's why Spike-Source Inc. in June will ship a tested, validated and supported combination of free opensource tools such as MySOL. IBoss, Python and PHP, According to Nick Halsey, vice president of sales and marketing at the Redwood City, Bivio's vice president Calif.-based company, Spikeof marketing, hails the Source keeps track of the reprocessor for its "betlease and patch cycle for each of the technologies. It also pared with Intel chips. tests changes to ensure that an update to one component company's engineers doesn't hamper something pack four CPUs on its else. Halsey says the compa-

installer and management tools. It plans to charge \$295 a year for the update service single card dedicated to man aging network security por-The current beta of the Soiketends a trend toward consoli-Source stack runs on five verdating various security funcsions of Linux and Windows. tions into a single box. That Would you put a VoIP includes firewall capabilities,

phone on your CEO's. ... dock? No way, say 63% of the 177 folks polled by Empirix Inc. at a voice-over-IP conference in February. While

amusing, that's not the stat that worries Jeff Fried, chief technology officer at the Bedford. Mass-based software vendor. Fried says that of the 150 companies in his sur vey, 98% are in the midst of VoIP deployments or have uns for them. And yet one third of them don't have a



quality-of-service (QoS) testing plan. Fried has a vested interest given that his company sells a line of testing tools called Hammer, That said, he rightly notes that

voice is a different animal." For example, he points out that dial tone and voice traffic run over different parts of the IP stack. Setting QoS parameters for one doesn't set them for the other. And there are more pitfalls, Maybe that's why all those CEOs aren't getting VoIP phones.

PowerPoint users give 30M presentations every day. So says Presen-

totions magazine. And Sonic Foundry Inc. wants talking heads to save their live sudio/video performances alone with the slide show You'll probably agree with lames Dias, vice president of marketine at the Madison. Wis.-based vendor, that not every one of those 30 million presentations needs his company's technology. But for training, distance learning and other applications, it my will throw in an automated makes sense. It makes more sense if, as Dias claims, you don't need specialized A/V or graphics skills to create a watchable presentation. The company's Rich Media Re-

> nize A/V feeds with material on the presenter's computor screen. You use templates to format and display presentations.

corder appliances synchro-

This week, Sonic Foundry plans to release its LX Rich Media Server software for handling content management, workflow, delivery,

archiving and security. Pric-ing starts at \$7,950. © 53783



Security and wireless. Together at last, HP's wireless' natebooks, powered by Intel® Centrino® Mobile Technology, have security features built in, not boiled on. In fact, all of our new wireless' notebooks, tablets and handhelds have distinct security advantages that set us apart. HP ProtectFools provides an array of the latest security tools designed to make your HP notebook, tablet and handhelds virtually impervious to intruders, whether you're working with wires or without. More expertise, technology, service, support and security. That's what HP Smart Office solutions give you.

HP recommends Microsoft® Windows® XP Professional.



HP COMPAQ nc6120

NOTEBOOK \$1,249 (\$1,599-\$350 Instant Sovings-\$1,249)

- bank Community Mobile Technology - latel fundam' M. Processor 730 (1.60G/ts)*

- 15" XGA Display - 24X DVQ-YCD PW Combo Drive - 512ME DOR SORAM (1 DINN) - 4008 (5400 gm) Hard Drive



HP COMPAQ tc1100 TABLET PC

\$1,599 - brail* Control* Mobile Technology

* Insi" Person" At Processor UE 713 (7,10GHz)" * lead* PRO Windows 22008G (R02.11b/g/

- 256MB DOR SDRAM - 40G8 (4200 sym) Hard 0 nuclicals Security Manager, Opin



HP IPACP* hv2750 POCKET PC

Healt PAAZ70 Processor Windows' Mobile 2003 for Paylor PC. Second Edition 125MB SDEAM 125MB Floor PCMI hasefeek frommo.

\$549



Secure your HP notebook investment. Get Accidental

Damage Protection for as time as \$49/year or \$109/3 years.		
CIICK	www.hp.com/go/mobility	6
CALL	1-866-625-4734	ŀ



TECHNOLOGY

Price steem be IF Deed price, media and title price tray any Price, moor as appoint on your met and of the price of the any Price, moor as appoint Deed to the Price of the any and address. Other carries to combined with you after other or decreat, are probable sage

intel Corp. has began volume to of its first dual-core or, the Pantium Extreme ahead of an official issuech. Intel and Advanced Micro Devices Inc. are both close to issuesting dustcore processors based on the x26 ection set. AMD is likely to be first: it plans to immoh dual-core Optoron processors on Aeril 21.

Microsoft Checks On New Office Flaw

resoft Corp. is investi an empatched flaw in its Office re suite that could allow re to remotely access use d last week in an advis ed "highly critical" from IT By firm Securie. It isn't one of volcorabilities that oft disclosed as part of this

Apple 02 Revenue Rises by 70%

de Competer Inc. best ana-n'expectations, reporting draps and a 70% increase in o, which was the result of cart increases in Macinton

icer inc. has disclosed plans to procures a dealthy PC based on or in late May, Acor's new pire PC was manifement by Abbi healther, general messager of self Digital Enterprise Group, ring the Intel Developer Forum

Enterprise BI Slow To Catch On for SAS

Many users expect only high-end tools from vendor

N.C.-based SAS Institute Inc. is drawing mixed reviews from users on its effort to expand from its traditional stronghold

of high-end analytics. Enterprise Bl took center stage here last week at the SAS Users Group Internat al conference, as SAS rolled out enhanced user interfaces to ease querving and reporti for business users in the SAS 9 platform, which was unveiled in 2004.

Kevin Dahnert, assistant

director for programs Lake Forest, Ill.-based pharmaceutical company NeoPharm Inc., said he uses internal programming processes rather than SAS 9 to generate reports for executives summarizing clinical study analysis data generated in SAS's drug develcoment analytical tool.

Waiting It Out

Joe Brenner, a statistician at the Office of the Actuary in the Centers for Medicare & Medicaid Services in the U.S. Department of Health and Human Services, said his office hasn't yet upgraded from SAS 8 to SAS 9. He's waiting to ensure that it meets expectations. "It generally doesn't pay to be first." Brenner said. "Every major release (from SAS has had) problems initially, and then they get squared away."

the enterorise BI market in March 2004, when it began shipping SAS 9. Since then, it has been ratcheting up efforts to overcome its reputation as a vendor of complex analytic forecasting and modeling tools for statisticians and othor power users

Canada Post Corp. is rolling out SAS 9 as its BI infrastructure for a program it hopes to have under way by September. Gabriel Toichoa, director of pricing and modeling at Canada's Ottawa-based postal service, said his organization chose SAS 9 over tools from Cognos Inc. and Business Obiects SA at the end of last year

because of its ability to perform high-end analytics and support business users. Canada Post plans to use the platform to create comsions, because organizational

structures can vary from one

plex pricing models and to predict what types of customers will be most likely to Some SAS 9 users acknowledged that they were primarily attracted to the high-end analytic tools.

www.computerworld.com

Apex Management Group Inc., a health care consulting company in Princeton, N.J., rolled out tools from SAS 9 for predictive analysis for its clients in November, though Apex will use Excel plug-ins for less technical users, said lody Porrazzo, director of

econometric risk strategy. "We require very, very robust forecasting models," she said. "If you want to do slice and dice and do pretty graphics only, don't go to SAS, go somewhere else."

While SAS has made strides in simplifying the technology for business users, the company must still prove to users that its tools can be used for statistical applications, said Keith Gile, an analyst at For-

something other than complex rester Research Inc. O 53798 Data Systems Corp. under a

location to another, noted Dana Gardner, an analyst at The Yankee Group in Boston. Setting Priorities

One of the main reaso ARN Amm adopted the portfolio management techniques was to help prioritize conflict ing demands among business units, which often have their own seemder, said Merchant "When we get into a discussioo over why Project A

should be allocated more resources than Project B. we can use the software to remind people why those decisions were made and the criteria that was used."

In September 2003 ABN Amro's wholesale banking division outsourced support of its IT infrastructure and applications development and main

five-year deal The portfolio manas

software prioritizes EDS development projects along with projects that fall outside of FDS's marview, according to Merchant. A key benefit of the PC-

based portfolio management software is that it cost ABN Amro less than \$50,000 to install. It's also inexpensive to maintain, since it runs on laptoos used by 10 senior IT man agers within ABN Amro's wholesale client services IT division who represent different parts of the business, said

Merchant. "You can spend \$50,000 bringing in a consulting firm for a couple of weeks and not have anything left but a recollection that they were in the chairs," be said. O 53000

IT ON TORACCO BOAD

Acer to Unveil Pentium D Desktop

management for the wholesale bank in Jersey City, N.J. The IT projects, which could affect business activities in any of the 55 countries where the ABN Amro division has operations, are supported by enterprise portfolio management software from Arlington, Va.-based Expert

year, according to Ed Mer-

Portfolio Management "We're very dependent on ABN Amro Bank NV bas em-IT for the wholesale bank's barked upon what analysts deproduct offerings," said Mer-

chant. "There's almost nothing scribed last week as one of the first global efforts to prioritize the business does that doesn't have an IT implication." and monitor a portfolio of IT Howard Rubin, an analyst at Late last year, the wholesale Gartner Inc., said that while client services business unit more than 80% of companies for the Amsterdam-based now claim to be using IT portfolio management techniques, bank began applying IT portfolio management technic fewer than 10% of multinato prioritize hundreds of IT

ABN Amro Turns to Global

tional corporation projects it has planned for this employ them globally. "It is rare and enchant, global head of vendor couraging to see companies applying IT portfolio management techniques on a global scale," said Rubin. It can also be useful for multinational operations like ABN

Amro to apply IT portfolio managemen

Users Say Data Storage Needs Outpace Technology

Interoperability remains roadblock to utility storage

Users at Storage Networking World Spring 2005 here last week said the demand for more data storage capacity is outpacing their ability to consolidate storage infrastruc-

tures and improve system per-formance. That conflict, they said, comes even as backup and recovery windows are shrinking.

agers also said they are moving away from individual storagecomponent purchases so they can focus on architectures to handle specific business needs - not just individual user requests for increased storage capacity. "My lost challenge to the in-

dustry is to see how fast can you make [storage] cheaper and make storage retrieval faster and occupy less space in my data center, because I'm out of room," said Bob Eicholz, vice president of corporate development at Efilm LLC in Hollywood, Calif. Efilm performs digital proc-

essing for movies and stores the data on a 200TBplus storage-area network (SAN) from Silicon Graphics Inc.

Interoperability is still one of the main obstacles to a utility storage architecture, IT managers said at the conference, which was co-sponsored by Computerworld and the Storage Networking Industry Association.

1196 Several users said they have moved away from yendors that overestimate how well their products perform and are insisting that vendors prove interoperability first. Bob Shinn, a principal in the IT department at State Street

ment arm of State Street Corp. in Boston, compared "blatant lying" about what works together in a SAN to forcing homoreneous storage architectures on users, since both make it mostly to use other vendors' products.

Shinn, who manages the unit's storage systems, said his IT department has changed the way it thinks about technology. Instead of buying the latest products based on speeds and feeds, it now considers what business problem is being solved Last fall State

Street consolidated seven SANs into a single, centralized location using switches from McData Corp. and storage from EMC Corp Shinn said his focus is on

creating a business-oriented services model with sophistiested chargeback capability.

Steve Duplessie, founder of Enterprise Strategy Group Inc. in Milford, Mass, pointed out to conference attendees that Network Appliance Inc. was demonstrating how its virtualization technology supports EMC's Clarison arrays.

Mesowhile, 10 vendors, including IBM, Network Appliance, EMC, Sun Microsystems Inc., Veritas Software Corp. and Hitachi Data Systems Corp., announced support for the most recent release of the

SNIA's storage management interoperability specification. SMI-S Version LO.2. The latest version of the protocol allows interoperability between storage architectures and storage resource

management software, which performs automatic discovery of bardware and performance monitoring of networks and

The protocol will also expand to include interoperability specifications between Internet SCSI devices and network-attached storage arrays. said Rick Bauer, SNIA's technical director

Chris Wilson, a storage architect at MCI Inc., said that the specification should help him get services to his internal clients faster and that it ties in with MCI's model for suror ed services delivery. © 53814

HP 'Made a Good Choice." Livermore Says

Declines comment on CEO candidacy BY DON TENNANT

At Storage Net working World. Ann Livermore, executive vice president of Hewlett-Packard Co.'s Technology Solutions Group, spoke about HP's recent hiring

of Mark Hurd as CEO, Excerpts from the interview follow: fhat's the buzz at HP new that Mark Hurd has taken over as

CEO? The buzz is mood. The customer and employee reaction to Mark has been positive. He clearly has a very strong operational background and a very deep knowledge of asnects of the computer industry. So he had a good match with the qualifications.

You were widely considered a top nder for the CEO neel Did the board approach you at any point to discuss the job? We're not making any comments on who were candidates and who weren't, or the speculation associated with it. But I will tell you that I think they made a

good choice. There's been a let of spec about whether it would make sense for HP to split up. What's year tale on that? The company is focused on making sure we

create good shareholder value. [Selling off parts of the comnany) is one option some analysts like. We believe that we've got a really strong portfolio and that there's value in

the portfolio. We just have an opportunity to execute better and more consistently than we have. O 53803

BEAD WORE ONLINE

Vendors Unveil Remote Backup, iSCSI Systems

Global Advisors, the invest-

To Manufacturers

Intel Corp. has begun volume noments of its first dual-core processor, the Pentium Extreme Edition 840, to hardware makers ahead of an official launch, Intel and Advanced Micro Devices Inc. are both close to launching dualcore processors based on the x86 instruction set. AND is likely to be first: it plans to launch dual-core Opteron processors on April 21.

Microsoft Checks On New Office Flaw

Microsoft Corp. is inves an unpatched flaw in its Office software suite that could allow rs to remotely access users ms. The vulnerability was d last week in an advisory d "highly critical" from IT security firm Security. It isn't one of the eight vulnerabilities that Microsoft disclosed as part of this month's security bulletin.

Apple Q2 Revenue Rises by 70%

Apple Computer Inc. beat analysts' expectations, reporting draally higher second-quarter os and a 70% increase in se, which was the result of ant increases in Macint ster and iPod shior 53.28 \$290M

01'04 \$1.98 \$48M Acer to Unveil Pentium D Desktop

Acer Inc. has disclosed plans to nce a desistop PC based on el's dual-core Pentium D procnoor in late May, Acer's new pire PC was mentioned by Abh salwalkar, general menager of Intel[®]s Digital Enterprise Groun. during the Intel Developer Forum in Taipel. Acer plans to announce the PC at the Computex show in Taipei, which starts May 31.

Enterprise BI Slow Dual-Core CPU Sent To Catch On for SAS

Many users expect only high-end tools from vendor

BY HEATHER HAVENSTEIN NE YEAR ofter it ontered the enterprise

business intellipence market. Cary N.C.-based SAS Institute Inc. is drawing mixed reviews from users on its effort to expand from its traditional stronghold of high-end analytics. Enterprise Bl took center

stage here last week at the SAS Users Group Internation al conference, as SAS rolled out enhanced user interfaces to case querying and reporting for business users in the SAS 9 platform, which was unveiled

Kevin Dohnert, assistant

Lake Forest, Ill.-based pharmaceutical company NeoPharm Inc. said he uses internal programming processes rather than SAS 9 to generate reports clinical study analysis data generated in SAS's drug develcoment analytical tool.

Waiting It Out loe Brenner, a statistician at

the Office of the Actuary in Medicaid Services in the U.S. Department of Health and Humun Services, said his office hosp't wet uperaded from SAS 8 to SAS 9. He's waiting to ensure that it meets expectations "It generally doesn't pay to be first." Brenner said. "Every

then they get squared away."

major release from SAS has had been initially and

to overcome its reputation as a vendor of complex analytic forecastine and modeling tools for statisticians and othor power users Canada Post Corp. is rolling oot SAS 9 as its Bl infrastructure for a program it hopes to have under way by September. Gabriel Toichoa, director of

the enterprise BI market in

March 2004, when it began

shipping SAS 9. Since then, it

has been ratcheting up efforts

pricing and modeling at Canada's Onawahased postal service, said his onganization chose SAS 9 over tools from Cognos Inc. and Business Obiects SA at the end of last year because of its ability to perform high-end analytics and support business users. Canada Post plans to use

sions, because organizational

plex pricing models and to predict what types of customers will be most likely to buy certain products. Some SAS 9 users acknowledged that they were primarily attracted to the high-end analytic tools

aww.computerworld.com

Apes Management Group Inc. a health care consulting company in Princeton, N.J. rolled out tools from SAS 9 for predictive analysis for its clients in November, though Apex will use Excel plug-ins for less technical users, said lody Porrazzo, director of

econometric risk strategy. We require very, very robust forecasting models," she said. "If you want to do slice and dice and do pretty graphics only, don't go to SAS, go somewhere else."

While SAS has made strides in simplifying the technology for business users, the company must still prove to users that its tools can be used for something other than complex statistical applications, said Keith Gile, an analyst at Enrrester Research Inc. © 53798

Data Systems Corp. under a

structures can vary from one location to another, noted The portfolio management Dana Gardner, an analyst at software prioritizes EDS de-The Yanker Group in Boston velopment projects alone with projects that fall outside of

Setting Priorities EDS's purview, according to One of the main reasons why Merchant ABN Amro adopted the port A key benefit of the PC-

based portfolio management folin management techniques was to help prioritize conflictsoftware is that it cost ABN ing demands among business Amen less than \$50,000 to inunits, which often have their own agendas, said Merchant. "When we get into a discussion over why Project A should be allocated more re-

we can use the softent parts of the business, said ware to remind people Merchant why those decisions were made and the criteria that was used."

he said. In September 2003 ABN Amro's wholesale banking division outsourced support of its IT infrastructure and applications development and maintenance to Electrone

stall. It's also inexpensive to maintain since it runs on lantops used by 10 senior IT managers within ABN Amro's wholesale elient services IT division who represent differ-

"You can spend \$50,000 bringing in a consulting firm for a couple of weeks and not have anything left but a recollection that they were in the chairs," he said. O 53809

IT ON TOBACCO ROAD nonce in the state of North Carolina



ABN Amro Turns to Global Portfolio Management "We're very dependent on I'll for the wholesale bank's

ABN Amro Bank NV has embarked upon what analysts described last week as one of the first global efforts to prioritize and monitur a portfolio of IT

policets Late last year, the scholeside client services business unit for the Amsterdam-based bank began applying IT portfolio management techniques to prioritize hundreds of IT projects it has planned for this year, according to Ed Merchant clobal head of vendor

management for the wholesale bank in Jersey City, N.J. The IT projects, which could affect business activities in any of the 55 countries where the ABN Amro daysoon has operations, are supported by enterprise portfolio mansuement software from Ar-

lington, Va.-based Expert Choice Inc.

product offerings," said Merchant. "There's almost nothing the business does that doesn't have an IT implication. Howard Rubin, an analyst at Garmer Inc., said that while more than 80% of companies now claim to be using IT port

folio management rechniques fewer than 10% of multina tional corporations employ them globally. "It is rare and en-

contraving to see companies applying IT vortfolio management techniques on a global sente" and Robin for multinational opcrations like ARN

Amen to apply IT portfolio monagement techniques across global business divi-

Users Say Data Storage Needs Outpace Technology

Interoperability remains roadblock to utility storage

BY LUCAS MEARIAN Users at Storage Networking. World Spring 2005 here last week said the demand for more data storage capacity is

outpacing their ability to consolidate storage infrastructures and improve system performance. That conflict, they said, comes even as backup and recovery windows are shrinksne

Some storage man arers also said they are moving away from individual storage component purchases so they can focus on architectures to handle specific business nceds - not just individual user requests for increased storage capacity. My List's hallenge to the industry is to see how fast can you make I storage I cheaper

and make storage retrieval faster and occupy less space in my data center, because I'm out of room" said Bob Excholz, vice president of cor porate development at Efilm LLC in Hollywood, Calif Efilm performs digital proc-

essing for movies and stores the data on a 200TBplus storage-area network (SAN) from Silicon Graphics Inc.

Interoperability is still one of the mass obstacles to a utility storage architecture. IT managers said at the conference, which was co-sponsoned by Computersweld and the Storage Networking Industry Association

What is your too challenge in stor-

Several overvisaid they have moved away from vendors their products perform and prove interoperability first

Bob Shinn, a principal in the IT department at State Street Global Advisors, the investment and it was a short corp. in Buston commun. 1. liferant hafte' about what works to tures on users, smar both Shinti, who manages the

unit's storage systems, and his the way it thinks about teelt nology Instead of buying the latest products based on speeds and feeds, it now considers what business problem is being solved. Last fall. State Street consolidated seven SANs into a single, centralized location using switches from McData Corp. and storage

from FMC Corp. Shirm said his focus is on creating a business oriented services model with suphisti-

cated chargeback capabilits Steve Duplessie, founder of

Enterprise Strategy Group Inc in Milford, Mass., pointed out to conference attendees that Network Apphance Inc. was demonstrating how its virtualization technology suprorts EMC's Clarmon stresss Meanwhile, 10 yendors, in-

cluding IBM, Network Appliance, EMC, Sun Microsystems Inc., Veritas Software Corp. and Hitachi Data Systems Corp., announced support for the most recent release of the SNIA's storage management interoperability specification, SMLS Version L0.2

The latest version of the protocol allows interoperabiliry between storage architectures and storage resource management software, which performs automatic discovery of hardware and performance

equipment The protocol will also expand to include interoperability specifications between Internet SCSI devices and network-attached storage arrays.

said Rick Bauer, SNIA's technical director. Chris Wilson, a storage archineer at MCI Inc., said that the specification should help him get services to his internal

clients faster and that it ties in with MCI's model for automat ed services delivery. O 53814

HP 'Made a Good Choice." Livermore Says Declines comment

on CFO candidaes



At Storage Net working World. Am Livermore executive ato. president of Hewlett-Packard Ca's Technology

BY DON TERMANT

Solutions Group spoke about HP's recent having of Mark Hurd as CFO Excepts

What's the buzz at HP now that Mark Hunf has taken over as CEO? The buzz is good. The customer and employee teaction to Mark has been positive He clearly has a very strong operational background and a very deep knowledge of aspects of the computer indus try. So he had a good match

You were widely considered a top contender for the CEO position. Did the board approach you at arry point to discuss the job? We're not making any comments on who were candidates and who weren't, or the speculation associated with it. But I will tell you that I think they made a

with the qualifications.

There's been a lot of specul about whether it would make sense for HP to split up. What's

your take on that? The company is focused on making sure we create good shareholder value. [Selling off parts of the companyl is one option some analysts like. We believe that we've got a really strong port folio and that there's value in the portfolio. We just have an

opportunity to execute better and more consistently than we have. O 53803

READ MORE ONLINE

Vendors Unveil Remote Backup, iSCSI Systems

Most of the users perusing the weres in the exhibition booths at Storage Networking World here led week were scouting out technologies to simplify increasingly complex storage environments.

And the vendors were displaying a variety of new products, inciuding a backup and recovery apnication from Microsoft Corp. and a storage security appliance for ISCSI from Dricry Inc. Microsoft minesed an ungraded

beta version of its Data Protection Manuager for Windows, a disk-todisk backup and recovery applica n for central end remote offices. The product will tikely be opporally available in the second ball of thes year, said Rekesh Neresmhen, need manager of Microsoff's eprise storage division.

The upgrade adds support for Windows Server and Windows Storage Server 2000 on top of support for Windows 2003, which was announced in the fall.

The new version also include desktop backup and recovery for

end users, a feature that appeals to Robert Bledsoe, a network architect for the Des Mornes public school system. "It's going to be passy to train our end users to restore their own lifes. It's very userfriendly "Bledson said.

Dan Warren, a network special est for the Des Moines Public Schools, said he has been beta testing the product since the fall and so far has it installed on 20 of 40 school servers purrong Windows 2000. Warren said he hopes to eventually deploy the applica-tion on 65 Windows 2003 servers

in secondary schools and in a central server form. Warren had previously nerformed backups on aging direct

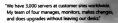
attached tage drives, which took about 36 hours every weekend and often included drive failures. He said the new disk-to-disk method will reduce his backura weedow to under 10 hours.

Warren and Bledsoe said they would like to see Microsoft extend ds Data Protection Manager application to Windows 98 systems

> while, Decru in Redwood City. Celd. brought out its first storage security appliance for SCSI storage networks.

The entry-level Decay DataFort iTIS device precedes the company's planned release of an enterprise-class appliance this summer The device enables encryption key management of networks and dewors. It's available now and retails for about \$9,900.





IT Manager, Reuters

Make a new for yourself with Welchoos form's plane.

Microsoft Workshop form's glyttem finals, for glyttem finals, for glyttem finals, form's glyttem finals, for glyttem finals, f

г

or Platform
Whotons Server*
What Server
Minimum A Analysis SS Server*
Minimum A Analysis SS Server*
Minimum Analysis SS Server*
Minimum Analysis SS Server*
Minimum Analysis SS Server*
Minimum Analysis SS Server
Minimum Analysis SS Server
Systems Management Server
Systems Management Server
Minimum Analysis Management Server

Intermet Security & Acceleration Server

Security



China, India Envision 'Asian Century' for IT

----BOLLOMBINATION of Indian soft-

ware skills and Chinese hardware expertise could make China and India leaders in the worldwide IT industry, Chinese Premier Wen Jiabao and last week in Bancalore, India When that particular day comes at will signify the coming of the Asian century of the IT industry," he said The IT industries of the two neigh bering countries until recently remanned separate because of a border dispute. But now, as the two governments work to resolve political disagreements, some cross-pollination

of their IT industries has begun. For example, Indian IT outsourcing firms such as Tata Consultancy Services Ltd., Wipro Ltd. and Infoses Technologies Ltd. have set up software development operations in China. And Huawei Technologies Co., a Chinese networking equipment vendor, has a re-

We have to stop look-

An International IT News Digest

ing at China as only competition and instead look at China as a big market for us" said Subramanian Ramadoras. CEO of Mumbar-based Tita ■ JOHN RIBEIRO I DO NEWS SERVICE

Russia Hopes IT-Friendly Policies Help Economy

BYING TO BOOK! its economy and

reduce its dependence on natural resources like oil, Russia has made local IT development a top priorsts, with plans for regional "technopurks" and industry-friendly legislarion "IT is Russia's next natural resource," Leonad Reiman, the country's technology manister, said at the Russian Economic Forum here last week

The government has carmarked Su60 million for high-tech initiatives such as the e-Russia ero-**GLOBAL FACT** gram, which includes e-provernment services and electronic medical push still faces signifi-

records. The country's [1] cant challenges, including limited funds, an uncertain business climate corruption and growing exherenme "Everybody

knows Russams have always been good at mathematics, and our software writers are highly trained. That's why our backers are the best in the world? and Borrs Miroshnikov, head of the Russian police force's exherering unit ■ SCARLET PRUITE 10G NEWS SERVICE

Aussie Agencies Get Open-Source Guide SYDNEY

mor arrest partial Convenence In formation Management Office plans to release guidelines this week that put open-source software on equal footing with proprietary software for government IT contracts. The document. "A Guide to Open Source Software," states that if an open-source product adequately fits the government's needs, public agencies must ob-

sectively consider it alongside proprietary offerings The document cautions government procurement officers "to avoid introducing unintentional barriers that may discourses or inhibit open-source vendors and resellers from submitting responses." For example, the guidelines. say that agencies writing requests for hids shouldn't specify products by

name or mandate proprietary systems. O 53779 ■ JULIAN BAJKOWSKI COMPUTERWORLD TODAY LAUSTRALIA:

Compiled by Mitch Betts

"If the DOD can show this

is a success . . . then a lot of

do that," Schmelzer said.

agencies are going to want to

Inc. in Cambridge, Mass. to

DISA has tapped WebLavers

help it develop the policies the

registry will enforce. WebLay-

ers last week announced that

DISA had awarded it a contract

to provide technology to define.

configure and enforce Web ser

Briefly Noted

Duanta Computer Inc. and MIT have announced a five-year, \$20 million joint project called

TParty to develop a new general of "smart" portable computing de vices. Taiwan-based Quanta may lactures about one-fourth of the world's not struct for IBM. He Co and Dell Inc.

#SUMMER LEMON, IDG NEWS SERVICE Wincor Nindorf International

Ombit, an IT vendor for the bank and retail sectors, will install the Linux operating system in its pointof-sale and other retail systems, under an agreement anno week with Nevell Inc. The Paderborn, Germany-based company at offers Microsoft Windows as an al-

JOHN BLAU IDG NEWS SERVICE The European Commission has urged telecommunications and utili ties regulators in Europe to remo-"any unjustified regulatory obsta-cies" that would inhibit develop-

ment of broadband internet acco over power transmission lines. # SIMON TAYLOR, IDG NEWS SERVICE

vices policies. In addition, Oakland-based AmberPoint

Inc. is providing an Enterprise Service Management tool to monitor the Web services. The DOD is still hammering out the details of all of the policies surrounding its use of

Web services. Vietmeyer said. DISA has begun working with a team from the department's CIO office to develop a profile for the interoperability of Web services, he said.

Some of the most vexing challenges regarding the use of Web services will be setting policies for security, mainly access control and authentication. Vietmeyer noted.

We're moving from a client/server environment where we had tightly coupled enclaves ... to say we need to make this information available to users," he said. O 53812

Continued from page I กกก

Army Navy and other groups within the DOD and Robert Vietmeyer, DISA's chief engineer for the Net-Centric Enterprise Services program. The DISA contract to be an-

nounced today is worth more than \$2 million over five years - perhaps the biggest deal for registry technology to date and signifies a critical mass of Web services at the DOD, said Anne Thomas Manes, an analyst at Burton Group in Midvale Utah Manes previously was chief technology officer at Systinet

The latest contract is unrelated to an early 2004 deal under which Sysrinet customized its Web services development tool for DISA.

A registry houses centralcond motodata describing the location of Web services and policies governing their use. "We're seeing the registry being positioned as the heart of the service-oriented architecture," Vietmeyer said. "If the SOA requires governance you can only govern those

things you can have visibility across. We don't have good visibility across the department today." Several hundred Web ser-

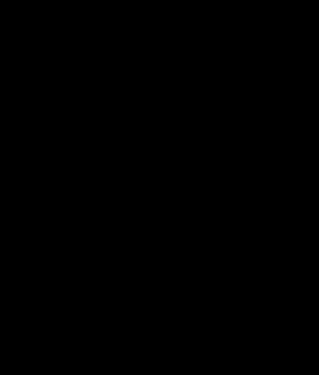
vices exist across the DOD. Some agencies expect to have 150 to 200 available by the end of the war Victmewer said. The Systings technology

will let the DOD classify Web services and their associated policies, said Dave Butler Systimet vice president of marketing. He added that it can insert a policy into a Web ser-

vice at runtime. For example, a Web service published by the Army to check weapons inventory could be restricted only to logistics users, he said. The DISA registry project

represents a big commitment by the U.S. government to SOA use and is a bellwether for other federal agencies, said Ron Schmelzer an analyst at Zap-Think LLC in Waltham, Mass.

DOD's Web Services Registry





China, India Envision 'Asian Century' for IT

THE COMBINATION of Indian software skills and Chinese hardware

expertise could make China and India leaders in the worldwide IT industry, Chinese Premier Wen fiabao said last week in Bangalore, India. When that particular day comes, it will signify the coming of the Asian century of the IT industry," he said

The IT industries of the two neighboring countries until recently remained separate because of a border dispute. But now, as the two governments work to resolve political disagreements, some cross-pollination of their IT industries has becun.

For example, Indian IT outsourcis firms such as Tata Consultancy Services Ltd., Wipro Ltd. and Infosys Technologies Ltd. have set up software development operations in China. And Huawei Technologies Co., a Chinese networking equipment vendor, has a research center in Banga-

"We have to stop look-

Army Navy and other groups within the DOD, said Robert Vietmeyer, DISA's chief engineer for the Net-Centric En-

The DISA contract to be announced today is worth more than \$2 million over five years - perhaps the biggest deal for registry technology to date and signifies a critical mass of Web services at the DOD, said Anne Thomas Manes, an analest at Burton Group in Midvale, Utah. Manes previously

The latest contract is unrelated to an early 2004 deal under which Systinet customized its Web services development tool for DISA.

An International IT News Digest

ing at China as only competition and

■ JOHN RIBEIRO, IOG NEWS SERVICE

reduce its dependence on natural resources like oil. Russia has made local IT development a top priority, with plans for regional "technonarks" and industry-friendly legislation, "IT is Russia's next natural resource," Leonid Reiman, the country's technology minister, said at the Russian Economic Forum here last week.

such as the e-Russia program, which includes e-government services and electronic medical

records. The country's I'l push still faces significant challenges, including limited funds, an uncertain business climate. corruption and emwine cybercrime. "Everybody

vice at runtime. For example, a Web service published by the Army to check weapons inven-

tory could be restricted only to logistics users, be said. The DISA registry project represents a big commitmen by the U.S. government to SOA use and is a beliwether for other federal agencies, said Ron Schmelner, an analyst at Zap-

Think LLC in Waltham, Mass

"If the DOD can show this is a success . . . then a lot of agencies are going to want to do that," Schmelzer said.

DISA has tapped WebLaye Inc. in Cambridge, Mass., to help it develop the policies the registry will enforce. WebLay ers last week announced that DISA had awarded it a contract to provide technology to define configure and enforce Web ser-

Briefly Noted

ER LEMON, IDG NEWS SERVICE

er Hinderf lets

vices policies. In addition. Oakland-based AmberPoint Inc. is providing an Enterpris Service Management tool to

onitor the Web services. The DOD is still hamme out the details of all of the policies surrounding its use of Web services, Vietmeyer said. DISA has begun working with a team from the department's CIO office to develop a profile

for the interoperability of Web services, he said. Some of the most vexing challenges regarding the use of Web services will be setting

policies for security, mainly ess control and auth n, Vietmeyer noted. "We're moving from a nt/server envir

here we had tightly coup claves . . . to say we need to be this information availab to users," he said. O 500

instead look at China as a big market

for us," said Subramanian Ramadorai, CEO of Mumbai-based Tata.

Russia Hopes IT-Friendly Policies Help Economy

BRYING TO BOOST its economy and

The sovernment has carmarked \$650 million for high-tech initiatives GLOBAL FACT

A registry houses centralized metadata describing the

location of Web services and

things you can have visibility

SCARLET PRUITT, ID6 NEWS SERVICE Aussie Agencies Get Open-Source Guide SYDNEY THE AUSTRALIAN GOVERNMENT IN formation Management Office

knows Russians have always been good

at mathematics, and our software writ-

ers are highly trained. That's why our hackers are the best in the world," said Boris Miroshnikov, head of the Russian

police force's cybercrime unit.

plans to release guidelines this week that put open-source software on equal footing with proprietary software for government IT contracts. The document. "A Guide to Onen Source product adequately fits the govern-

Software," states that if an open-source ment's needs, public agencies must objectively consider it alongside proprietary offerings. The document cautions government rocurement officers "to avoid intro-

ducing unintentional barriers that may discourage or inhibit open-source vendoes and resellers from submitting responses." For example, the guidelines say that agencies writing requests for bids shouldn't specify products by ame or mandate proprietary systems. · JULIAN BAJKOWSKI.

COMPLITERWORLD TODAY (AUSTRALIA) Compiled by Mitch Betts.

Continued from page I DOD

policies governing their use. "We're seeing the registry being positioned as the heart of the service-oriented architecture," Vietmeyer said. "If ise Services program. the SOA requires governance ... you can only govern those

across. We don't have good visibility across the department today." Several hundred Web services exist across the DOD. Some agencies expect to have 150 to 200 available by the end of the year, Vietmeyer said. The Systinet technology was chief technology officer at will let the DOD classify Web services and their associated

policies, said Dave Butler, ystinet vice president of m keting. He added that it can insert a policy into a Web ser-

Your presentation is due now. Your toner is due in two days.

(Isn't it time for a better printer?-







(P)

Firms in India Seek Better Background-Check System

India's technology firms are creating a centralized employ-

ce information depository, with employment, education and even credit histories, for conducting employee backenound checks

The issue of background checks for Indian technology job candidates arose this month after 12 people were arrested for allegedly defrauding four Citibank account holders in New York of more than of were former call center employees of Mphasis BFL Group

in Mumboi | Ouickl ink 536341. This depository, to be launched as a pilot over the next two months by the Delhibased National Association of nies (Nasscom), India's major technology trade group, is designed to fix a problem in the

developing country: a lack of centralized personal data In the U.S., employers can use so-called data brokers, including two that recently reported security breaches -

ChoicePoint Inc. and Lexis Nexis Group - to get background information on job condidates But India decen's have centralized, national databases. In fact, it wasn't until last year that a national eredit-reporting agency, the Credit Information Bureau of er data on Indian citizens

Without acress to that type of data, Subbu Venkataraman, a vice president at Sierra Atlantic Inc., a Fremont, Califbased provider of offshore IT services, depends on former employers and third-party firms to check the references of Indian job candidates.

facility, the company checks his qualifications with previous employers, said Venkataraman in an interview from India, A third-party referencechecking firm is also used, and job candidates may be asked to provide paper documents. such as credit card bills and bank records, to help verify their credit histories, he said. Sierra Atlantic's process is

an India solution for an India problem. It seems to be working fine," saud Venkataraman.

Safeguards in Place As envisioned, the Nasscom

program would allow technology workers to voluntarily register in the database, said Nasscom Vice President Sunil Mehra. The registry will be administered by a third party that will hire a professional reference-checking company

county's voting-related processes, including the way it

manages system coding and staff tesimine Burgess also unard Sola to "assess the desirability and feasibility of replacing the county's touch-screen elec-

tronic voting system with an optical scan system? In adjacent Beoward County which also uses (Votronic machines, optical scanning would have been preferable from the

start of electronic votine, said Mayor Kristin Jacobs The optical sear

might have been considered after the 2000 election debacle, she noted, but the state's 2002 deadline tu automate voting systems left county offirials scrambling to meet the timetable rather than taking time to carefully

them outside of Mphasis facilities to gain personal identification numbers for account accoss. "Clearly, it is important that we keep reminding everyhody that they shouldn't give out PINs," he said

to conduct background checks.

Jeroen Tas, vice chairman of

Mphasis, said the theft of data

from his firm may be the result

of someone sytting customers'

phone numbers and calling

Mphasas doesn't allow its business process outsourcing employees to bring in any me-

diarbot can be used to copy files, and calls are monitored.

Tus said

Background checks don't processarily would not problems said Bruce Schneier, chief techpology officer at Counterpage Internet Security Inc. in Mountain View. Calif. *Sure, they'li

find known criminals," he said, "but they won't find people with nu criminal records who might steal money when the opportunity arises." Reference checks didn't turn up any problems with the arrested employees. Tas said. It may be up to employers to sort out best practices in dealing with offshore firms. The Financial Services Technology offshore standards over issues such as the handling of live data (QuickLink 42182). But it dropped the project because member financial services practice book could be used by foderal authorities to develon more stringent regulations.

said Jim Salters, director of technology initiatives for the ESTC. O 53817 equipment between \$3 million and \$10 million but Sale said that would likely be cheaper

than buying 7,200 printers at about \$1,300 apiece for the (Votronic machines **Explaining why Miami-**Dade didn't turn to optical scanning equipment in the first place. Sola said officials

viewed it as just a newer variation of the faulty punch-card technology because it included paper, "We've learned a lot," he said. "It's healthy to

For its part, iVotronic vendor ESAS emphasized that responsibility for the coding errors lie with the county itself, *ES&S values our relationship with Miami-Dade County and [is] very proud of the work we have done together over the years to greatly enhance the county's voting process," the company said in an e-mail statement. Sola is due to deliver a re-

port on his review of the voting process to the county manager on May 27. O 53813

Continued from page I

E-voting count votes in five local elec-

tions, with a boiling point reached in a countywide March 8 special election.

The latest snafu - in which a glitch caused bundreds of votes to be uncounted, prompting the subsequent resignation of county elections supervisor Constance Kaplan - left Miami-Dade officials consid ering a possible switch to optical scanning occupances.

Officials said the miscount didn't influence the result of but month's election

However, "if you talk to a number of people, they have lost confidence and are eyeccal about whether their votes count," said Miami-Dade County Mayor Carlos Alvarez. "That has to be changed. We need to do something where we can restore the confidence of the people in the electoral process. That bods down to

Once someone applies for a the compment. The compment is problematic.

He also emphasized that people want some sort of backup, a hard cupy on paper." which is unavailable with the touch-screen machines

With backing from Alvarez, County Manager George Burgess on April 4 issued a memprondom instructing newly appointed Supervisor of Elections Lester Sola to undertake

a comprehensive review of the

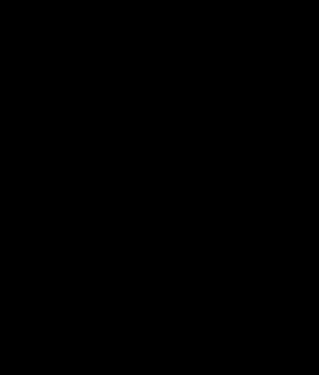
evaluate all options Budgetary con-

straints - the county has already spent \$17 million on the new systems - now prevent it from replacing the new e-voting machines with optical scanners, Iacobs said She added that she is now

pushing to get the state's ap proval to use printers with the touch-screen machines Solvenid Minmi-Dode's problems resulted from human errors. The e-voting

equipment "is working as required," he said. Nevertheless. optical technology could cut costs and would provide hardconv records of votes The punch-card-based sys-

tem cost \$1 million to \$2 million per election. The iVoeronic system, which includes 7,200 machines, cost \$6.6 million in the November election. Part of that cost was the result of having to transport the machines back and forth securely to the voting precinets, which required temporary help and trucks Some estimates put the cost of installing optical scanning



Firms in India Seek Better **Background-Check System** developing country: a lack of centralized personal data.

India's technology firms are creating a centrali zed employee information depository. with employment, education and even credit histories, for conducting employee backand checks.

The issue of background checks for Indian technology iob candidates arose this month after 12 people were arrested for allegedly defrauding four Ciribank account holders in New York of more than \$300,000. Three of those arrested were former call center em-

ployees of Mphasis BFL Group in Mumbai [QuickLink 53634] This depository, to be launched as a pilot over the next two months by the Delhihosed National Association of Software and Service Companies (Nasscom), India's major technology trade group, is de-

In the U.S., employers can use so-called data brokers, including two that receotly reorted security breaches -ChoicePoint Inc. and Lexis-Nexis Group - to get background information on job candidates. But India doesn't have centralized, national databases. In fact, it wasn't until last year that a national credit-reporting agency, the Credit Information Bureau of India Ltd., was formed to gather data on Indian citizens.

Without access to that type of data, Subbu Venkataraman, a vice president at Sierra Atlantic Inc., a Fremont, Calif.based provider of offshore IT services, depends on former employers and third-party firms to check the references of Indian job candidates. Once someone applies for a

facility, the company checks his qualifications with previous employers, said Venkataraman in an interview from India. A third-party referencechecking firm is also used, and ioh candidates may be asked to provide paper documents, such as credit card bills and

bank records, to help verify their credit histories, be said. Sierra Atlantic's process is "an India solution for an India problem. It seems to be work-

ing fine," said Venkataraman.

Safeguards in Place As envisioned, the Nasscom program would allow technol-

ney workers to voluntarily register in the database, said Nasscom Vice President Sunil Mehta. The registry will be administered by a third party that will hire a professional reference-checking company

to conduct background checks.

be said. Jeroeo Tas, vice chairman of Mphasis, said the theft of data from his firm may be the result of someone getting customers' phone numbers and calling them outside of Mphasis facilities to gain personal identification oumbers for account access. "Clearly, it is important

that we keep reminding every body that they shouldn't give out PINs," be said. Mohasia doesn't allow its business process outsourcing employees to bring in any me-

India Is Hiring

dia that can be used to copy files, and calls are monitored. Tas said.

Background checks don't necessarily weed out proble said Bruce Schneier, chief technology officer at Count Internet Security Inc. in Moun tain View, Calif. "Sure, they'll find known criminals," be said. "but they won't find people with no criminal records who might steal money when the opportunity arises." Reference checks didn't turn up any problems with the arrested employees, Tas said. It may be up to employers to sort out best practices in deal-Financial Services Technology

ing with offshore firms. The Consortium was developing offshore standards over issues such as the handling of live data (QuickLink 42182), But it dropped the project beca member financial services firms worried that any bestpractice book could be used by federal authorities to develop more-stripment regulations. said Jim Salters, director of technology initiatives for the PSTC. © 53817

signed to fix a problem in the Continued from page I

E-voting

count votes in five local elections, with a boiling point reached in a countywide March 8 special election.

The latest snafe - in which a elitch caused bundreds of votes to be uncounted, prompting the subsequent resignation of county elections supervisor Constance Kaplan - left Miami-Dade officials consid ering a possible switch to opti-

Officials said the misco didn't influence the result of

However, "if you talk to a imber of people, they have lost confidence and are cynical about whether their votes count," said Miami-Dade County Mayor Carlos Alvarez. That has to be changed. We need to do something where

we can restore the confidence of the people in the electoral

the equipment. The equip-ment is problematic." He also emphasized that "people want some sort of

backup, a bard copy on paper," which is unavailable with the ch-screen machines With backing from Alvarez,

County Manager George Bureess on April 4 issued a memorandum instructing newly appointed Supervisor of Elec-tions Lester Sola to undertake a comprehensive review of the

county's voting-related processes, including the way it manages system coding and

staff training. Burgess also urged Sola to "assess the desirability and feasibility of replacing the county's touch-screen electronic voting system with an

ootical scan system." In adjacent Booscard County. which also uses (Votronic machines, optical scanning would have been preferable from the

start of electronic voting, said Mayor Kristin Iscobs. The optical pear

might have been coosidered after the 2000 election debacle, she noted, but the state's 2002 deadline to automate voting systems left county officials scrambling to meet the timetable rather than taking time to carefully evaluate all options. Budgetary con-

straints - the county has already spent \$17 million on the new systems - now prevent it from replacing the new e-voting machines with optical scanners, Jacobs said.

She added that she is now pushing to get the state's approval to use printers with the touch-screen machines. Sole said Miami-Dade's problems resulted from human errors. The e-voting

equipment "is working as required," be said. Nevertheless, optical technology could cut costs and would provide hardcopy records of votes.

The punch-card-based system cost \$1 million to \$2 million per election. The iVotronic system, which includes 7,200 machines, cost \$6.6 million in the November election. Part of that cost was the result of having to transport the muchines back and forth securely to the voting preciacts, which required temporary help and trucks.

Some estimates put the cost of installing optical scanning

equipment between \$3 million and \$10 million, but Sola said that would likely be cheaper than buying 7,200 printers at about \$1,300 apiece for the Wotronic machines

Explaining why Mismi-Dade didn't turn to optical scanning equipment in the first place, Sola said officials viewed it as just a newer variation of the faulty punch-card technology because it includ ed paper, "We've learned a lot," he said. "It's healthy to

look at options." For its part, (Votronic vendor ES&S emphasized that responsibility for the coding errors be with the county itself. "ES&S values our relationship with Miami-Dade County and [is] very proud of the work we have done together over the years to greatly enhance the county's voting process," the company said in an e-mail statement. Sola is due to deliver a report on his review of the voting process to the cou manager on May 27. © 53813

Shift



2nd Annual



Mark Your Calendar!



Are you responsible for 'managing your company's data center assets? Want to exchange innovative ideas and strategies with other executives who share the same objectives? Then attend Enterprise Management World, where you'll network with and learn from renowned experts and the netition is top user executives.

The Leading Conference for:

- · Enterprise IT Management
- Data Center Management
- · Networked Server and Storage Management
- Network and Communications Management
- Infrastructure and Data Architects
 Systems Integration Specialists
 - · Enterprise Security Management

To register or for more information,

Attendees at Enterprise Management World 2004, Philadelphia saw solutions from:

APC Committee Systems

COLUMN STORES

DOLL'

PONSONS CRACLE ASSOCIATE EXHIBITORS

G IDC

EMC

Co-Owned and Endorsed by

DMTF

Co-Owned and Produced by

or aponeorable opportunities at this year's event, call Leo Leger at 506-820-8212.

planned to deploy SP2 some-

Holland & Knight LLP up

clients to SP2 over a six-week

time in mid-2005

soft's expectations. In Febru-SP2 Blocking Tool Expires on Windows XP ary, the company said 77% of about 800 enterprise customers surveyed in late 2004

Deadline forces Automatic Updates users to do full Service Pack 2 install

BY JORIS EVERS A special tool that blocks the

download of Service Pack 2 on Windows XP PCs expired last week, ending an eight-month reprieve from SP2 for some users who rely on the Automatic Updates feature in Win-

dows to keep their systems up Following the release of SP2 last August, Microsoft Corp. agreed to temporarily offer the blocking tool after hearing from Automatic Updates customers who weren't prepared to deal with the service pack. Users could set a Windows registry key to instruct the system to skip the download-

ing and installation of SP2 but still download other critical The April 12 deadline — a 240-day extension - was established to give users adequate time to prepare for the mammoth update. SP2 is now delivered to all Automatic Updates users and is available at the Windows Update Web site. "I am ready for XP SP2 now," said Thomas Smith,

manager of desktop engineer ing at a large Houston-based company, which he declined to name. Smith had earlier blocked the SP2 download on the 5,000 PCs he manages. His firm began upgrading systems last month after finishing work on a complementary update that users will apply so they can keep accessing certain Web sites that SP2 blocks.

he said Still Smith isn't happy with the way Microsoft is "forcefeeding" him the update. "I am glad that we were able to prenare for it, but next time, they need to have a good user roundtable to discuss this," be said. Smith said he expects the upgrade project to be 80%

complete within a mooth.

protect Windows XP users against backers, viruses and other security risks. However, in the process, SP2 can render applications inoperable and

block access to certain Web sites, which prompted many businesses to hold off on in stalling SP2 so they could take the time to test it with their **Upgrade Obstacles** Compatibility issues are keep-

ing Reed Smith LLP from immediately upgrading its 2,600 Windows XP machines. The Pittsburgh-based law firm plans to include SP2 in a refresh of its desktop software to be installed starting next year, said David Guil inger, a director in Reed

Smith's systems and technology department. "If we build from scratch SP2 works fine with our software: if we apply it on top of our existing configurations. we have issues," Guilinger said. "Upgrading introduced

and conflicts." Microsoft advised con-

graded its 3.500 Windows XP sumers to enable Automatic Updates in Windows XP to patch their systems, but it recommended that businesses use patch management tools such as its Systems Management Server

(SMS) and Software Update Services, or thirdparty products The expiration of the blocking tool "affects only machines in a handful of enterprise cus-

tomers' environments," said Tiffany Allesina, a group product manager at Microsoft, in a statement. Most customers that used the tool have either installed SP2 or now use special tools for patch management she said

Microsoft has labeled SP2 a "critical" undate and noted that 185 million copies of SP2 have been downloaded to date Adoption by enterprise customers is in line with Micro-

period without any hiccups. said Travis Abrams, IT security and systems MORE ONLINE manager at the For additional operating sur tern news, visit our OS blog.

Lakeland Flalaw firm. Holland & Knight tested carly releases of the service pack over several

months, he said. The upgrade, performed using Microsoft's SMS product. weot smoothly, Abrams said. The primary issues were related to Web sites, some of which had to be added to the list of treated sizes in the In-

ternet Explorer Web browser. Abrams advised his peers to uperade as soon as possible but test compatibility with business applications and Web sites first. O 53782

Evers writes for the IDG News Service.



FOR CONSOLIDATION, BUSINESS CONTINUITY AND COMPLIANCE, DELL BRINGS TOGETHER THE TWO KEY THINGS YOU NEED.

Oell Services' full suste of offerings and highly trained professionals help plan, implement and manage your information management needs. Tap into their expertise for solutions on storage consolidation and continuity every step of the way.

> (2) From SAN to NAS to Table Backup systems, Dell offers a complete portfolio of innovetive storage technology to address all of your prowing storage demands. Simply, powerfully, affordably





Got Questions About Enterprise Mobility?

Computerworld's IT Executive Summit Has the Answers

If you're an IT executive in an end-user organization, apply to attend Computerworld's upcoming complimentary half-day summit on wrekess broadband access for the enterprise.

CIOs and senior IT executives are finding that replacing multiple remote access technologies with wireless broadbard access to the entirprise can play a key role in boosting employee productivity and streamlining IT support while significantly reducing operational costs.

As the workforce becomes increasingly mobile, the variety and number of remote access devices as well as the need to secure the data they send and receive presents a daunting challenge for today's enterprises.

By leveraging the knowledge of industry experts and the real-world experience and advice of your IT peers, this IT Executive Summit will provide an overview of effective strategies for overcoming the obstacles in deploying wireless broadband access for the enterprise.

* Complementary regestration is restricted to qualified IT executives only

Apply for registration today Contact Chris Leger at 888-299-0155 or visit: www.itexecutivesummit.com

Achieving the Mobility Imperative: Enabling, Securing and Managing Wireless Broadband Access

New York Marriott Marquis • April 26, 2005 Cantor Jolson Room, 9th Floor 1535 Broadway in Times Square, New York City

7:45am to 8:15am Registration and Networking Breakfast

8.15am to 8.30am Introduction and Overview

Ada King, Executive Editor, Events, Computerworld

8:30am to 9:15am The Next Wireless Evolution lan Griott, Founder, Æillott Research

9:15am to 9:45am Sales Force Mobilization
Jeff Jones, System Project Leader, UnumProvident

9:45am to 10:15am Refreshment and Networking Break 10:15am to 10:45am Keynote Presentation:

Roger Guman, ClO, Verizon Wireless

10:45am to 11:15am End-User Case Study

Larry Seger, SVP: Strategic Insight Officer, Sun Microsystems
11:15am to Noon

Panel Discussion: Real-World Wireless
Middelart Julia King, Eacute Edder, Events, Computerworld
Panelists: Norm Fjerheim, SVP and OIQ, Qualcomn
David Thelibro, Hieroration Systems, Manager,

Foley, Inc. Jenkins Ravenel, Principal, Technology and Operations, Network Computing, Bank of America Joseph Znikos, VP. Global Telecom Industry, BM Selected speakers include:













Co-sponsors







Officials say that improvements are coming slowly

BY LAURA BOHDS A U.K. government report

painted a decidedly difficult picture of the besieved Child Support Agency's (CSA) child-support case manage ment and telephony system. That picture included accounts of stockpiled claims that were never entered into computer systems, files that were deleted for no clear reasoo and incorrect information that demoralized staff members intentionally entered in an effort to keep cases active.

Two years into its development, the problem-plagued. \$863 millioo CSA system includes a key lava-based application developed by Electronic Data Systems Corp., as well as a telephone call center system from BT Group PLC's

consulting and systems integration business. The IT system, launched two years behind schedule in

March 2003 and \$484 million over budget, has been blamed for delaying payments to tens of thousands of single parents. "Some innovative members of staff had attempted to find alternative solutions to the problems caused by the fracile IT system, in order to provide better service to clients, Staff were not always entirely sure bow near they were to breakine rules," according to the

Reform: The views and experiences of CSA staff and new Ongoing Effort The Department for Work and Pensions (DWP), which oversees the CSA, commissioned the report from the Personal Finance Research Centre at the University of Bristol in

report titled *Child Support

clients"

A number of new software releases have been made, and there has been significant improvement.

SPOKESMAN, U.K. DEPARTMENT FOR WORK AND PENSIONS

England, Most of the staff interviews were conducted last April, according to a spokesman for the center. The report was submitted in September to the DWP, which published the paper on March 24.

The DWP last week stressed that improvements have since been made to the system. "The information in this report is quite old: a number of new software releases have been made, and there has been significant improvement," a DWP spokesman said.

EDS is still working with the DWP to get the system "satisfactorily functional," said Alan Johnson, the U.K.'s secretary of state for Work and Pensions, in a House of Commons Parliamentary Select Committee progress report last month. He also revealed that the DWI

has withheld \$25.2 million in payments to EDS over the past two years [QuickLink 53508]. Despite the recent progress, the CSA will likely delay the transfer of hundreds of thousands of cases from its old systems until next year, the report said. "We will not icopardize cases where money is already flowing to children by moving them onto the new system until we are sure it is

working properly," the DWP spokesman said.

Telling Interviews The report assessed not just the new IT system but also the entire overhaul of the CSA that was undertaken at the same time. It is based on interviews with 42 administrative officers and 12 executive-level staff members, as well as 58 clients. The CSA employs about 10,000 people.

Those interviewed criti cized the design, speed and reliability of the system. Specific complaints included screens that took from 20 seconds to 10 minutes to refresh, the lack of a delete button for accidental errors and instances where staff were unable to send cases to the right office and therefore "simply deleted

The training process was also ineffective and insporopriste, according to the report. Rather than receiving training on the live system, a majority of the employees were given specially prepared computer training disks that contained only straightforward, problem-

them," hoping that they were

duplicated in the appropriate

Despite being encouraged last year by the Select Committee to completely scrap the system, it appears that the DWP has decided to focus on fixing what it has, though the DWP was unable to say when the system is expected to be fully operational. O 53777

Rohde is a reporter for the IDG News Service.



OUT HANG-UPS.

The new Dell/EMC AX100i storage erray

. The new AX100 (SCS) storage array is built off the same SAN technology as the AX100, which earned infoWorks's 2005. Technology of the Year Award

. This IP SAN solution is as easy to install as a server, with the power of a SAN



. Up to 50% less expensive than a Fibre Channel SAN

- Manage this storage box from any

web browser, from anywhere . Dual storage processors maximize

your data averlately to



GET MORE OUT OF STORAGE. GET MORE OUT OF NOW.





The world's most-deployed server platform now supports 64-bit applications. The Intel' Xeon processor now works harder for your business than ever with innovative platform features that enable power-saving options, flexible memory, I/O and storage configurations. And, of course, continued support for all your existing 32-bit applications.

How can Intel Xeon processor-based servers serve you? intel.com/go/xeon



DON TENNANT

Manifest Destiny

HAD ABSOLUTELY NO INTENTION of writing about globalization again this week. I'm loath to belabor the issue, or perhaps more accurately, to further belabor it. Plus, there are a lot of important news stories in this week's issue that would be really cool to write about to hopefully spark some discussion in other areas.

But the "IT Inbreeding" column I wrote three weeks ago that caused such a commotion (Quick-Link 533771 did a disser vice that needs to be addressed promptly. It was a disservice not for the reasons that were articulated in all those readers' letters we printed in last week's issue (OuickLink \$3571) and in the dozens of others we didn't have the

space or permission to print, but for a reason that was articulated last week by, of all people, Mikhail Gorbachev. In my column, I said com that outsource work to rural locarions in the U.S. as an alternative to offshore locations need to weigh the opportunity cost of not having that contact with non-U.S. cultures and

markets. My broader point, and my reason for using the controversial eeding" analogy, was that we benefit more from outside engage ment than from insularity. But the point I failed to make, and hence the disservice, is this: We simply can't and must not be concerned solely

with what benefits us in this country. Speaking at a meeting of the Massachusetts Software Council in Bosto Gorbachev called on the IT sector and U.S. leaders to develop partnerships with other nations and to get over the fear of IT advances in other countries. Such partnerships will foster a "secure, just and democratic orld order," Gorbachev said. "The [current] state of global chaos is

not good for anybody." He went on to appeal to the IT community to help narrow the gap between the rich and poor. which would in turn aid in creating a "new world order" that will be "more stable, more just and more humane." The premise is that as a rich nation, we have the

obligation to belo those who are less fortunate. tudging from the letters I've received, a whole lot of Americans just don't buy into that premise. One of the hardest-hitting letters

was from an IT professional and mom who said she was "saddened by my column. "Of course, I was already sad," she said, "at the plight of

my fellow IT professionals, many of whom will never work in this profession again, whose skills, intelligence, energy and expensive education and training have been flushed down the toilet by their own country." She said she'd been laid off in 2001, and it took her 10 months to find another job. "We fended off homelessness by the skin of our teeth," she said

1, in turn, was saddened by her account, as anyone would be. It's sim ply unacceptable that she was put in that position. My problem is that I find it equally unacceptable for any mom anywhere to be put in that position. I'm simply unable to rationalize the notion that we as Americans should consider ourselves inherently more worthy of a decent livelihood

simply by virtue of the fact that we had the incalculable good fortune of being born or otherwise gaining citizenshin here. If we have a manifest destiny, let it be to improve the lot of all mankind.

No one has done more to achieve that end than U.S. technology professionals. Don't lose sight of that calling now. O 53786



THORNTON A. MAY

Mainstream Can't See IT Individuality

N A RECENT EPISODE of the comedy/drama Boston Legal, a senior partner asks the lithe and exotic female associate. Tura, if Denm Crane (who is played by William Shat per, better known to the IT community as Capt. Kirk from the space opera Star Trek) had at any time done something to objectify her. Tara replies, without malice or concern, and apparently quite pleased with the situation, that

all men objectify her While Tara may find ber objectificaion a vital, or at least nontoxic, part of her workplace identity, sociolog anthropologists and most behavioral psychologists will tell you that it's bad to be thought of as an object. In being

an object, you ceas to be a person. You are presumed to possess traits that others associate with the

class of objects you are labeled as beenging to. Which brings us to the world of IT. A review of media treatments and comm cation patterns cur-

rently being done at the IT Leadership Academy indicates

that most people outside our ind and virtually all media outlets objecti fy IT professionals. While objectification is thought to be a very good thing in the world of software developme when it comes to the evolution of our industry, our profession and your own career, it's a very bad thing. IT professionals are viewed as tech objects -"Fix my PC," "Make my e-mail work"

- and frequently nothing more. Every journalist, researcher and po fessor in this business has been asked by vendor CEOs and marketing chiefs, "So tell me, what are CIOs thinking these days?" Is this not objectification

Of course, many professions suffer from this sort of thing. The financial world has Wall Street. Politicians have Main Street, Marketers have Madison Avenue. Stretching a bit, we could

understood.

claim that venture capitalists have help sorting it all out Sand Hill Road. Though these thoroughfares do exist, they are used more as pathways of thought, fraught with meaning. As such, they are shorthand references to the compendium of understanding regarding s certain industry. There's no byway for IT as yet. But before we can create a road of our own (Rue du Tech?), we need to do a bit of surveying. The IT Leadership Academy's examination revealed that the mental processes of IT leaders are for the most part unmapped and poorly

Teams of surveyors at the Berkeley CIO Institute and the CIO Solutions Gallery at the Fisher College of Business at Obio State University will tell you that the IT community should be parsed on three dimensions at the very least: the size of the company, the qual ity of its IT shop and the vertical market it's in. Simply focusing on one dimension - say, vertical markets -

isn't enough. For example, if one were to come the mental models and day-to-day business behaviors of Mary Adams at Ford. Ralph Szygenda at General Motors, Barbara Cooper at Toyota and Rich Hoffman at Hyundai, one would find fundamentally different approaches to creating value with IT

I'm very fortunate to have met and become friends with many high-impact CIOs. Having spent a great deal of time with these individuals, I can state most emphatically that IT leaders are deliciously, demonstrably and dramatically different. Armone who doesn't realize that is just plain nuts.

IT professionals are people worth knowing who deserve to be treated as the wonderful individuals they are.

IOHN PARKER

IT. Workers Can't Cling To the Past

RECENTLY attended a meeting that stayed on my mind for quite a while. It's clear that as my company changes to meet the future, it creates uncertainty about IT jobs. This uncertainty makes career planning difficult for our technology professionals, and some frontline IT people had asked for

The meeting was still rattling around in my head when I received three magazines in the mail. One targeted CEOs, another CFOs. and the last one board members. This coincidence led to a quick look, which yielded some surprises. The IT-related content was remarkable. One-third of the CFO publication focused on

outsourcing, networks, ondemand IT, storage, business intelligence technologies and, strangely, XML. The board magazine discussed recruiting CIOs for board membership and the merits of boardlevel IT committees. The CFO publiestion even discussed innovation through IT, instead of the usual cost-

cutting.

I believe these publications are on target. IT is clearly on the minds of those who run our communies - in spite of the buzz a few months back that IT is no longer an important arrow in a company's quiver - for three primary reasons

1. Running a significant business without solid IT solutions is virtually Inconcelushia 2. The Sarbanes-Ordey Act and other regulations increase the focus on corporate controls and financial

operations and have significant IT implications.

> Clearly, Microsoft has potten a lot of mileage out of features that appeared first in the Mac OS (as Gates begrudgingly admitted in Termant's column). But it has by no means been a one-way street Alan Zisman

OPINION

Computer seacher, Vancouver School District Voncouver British Columbia

M AC OS & MAY BE a rice-looking overlay to Unix, but it still leaves much to be desired. For example, networking in an environment where multiple servers are used is decidedly Rally, permi must be changed to do simple

things like adding forts or nonets dard printers, and adminis accest is difficult. People may see the and of Mr

clients is for the sponsor to write The project charter, and not just sup off on it. This shows a true commitment to the project. Key things to include that even't

3. Businesses are shifting from a cost focus toward value-building investments Emphasis on innovation. growth and revenue generation is increasing, which will lead to important IT

projects. IT's importance is clear. but that doesn't make the technology alone strategic. Business personnel no longer use technology as s

silver bullet, as some did during the Internet boom. They now see that IT tools are only as good as those wielding them, which nuts the strategic premium on tradi-

tional elements such as corporate strategy, customer service, unique product offerings and execution. What does this mean for IT shops? Renewed focus on traditional busi-

ness disciplines creates tremendous opportunities for IT shops. The key is establishing a collegial alignment with business personnel as strategies and objectives are developed. This insight can be used to develop a two-to-threeyear technology implementation plan to support business activities and cresee value

Those shops that play offense by aligning correctly, executing flawlessly, establishing the right mix of internal and third-party solutions, and investing wisely will thrive while accommodating the dynamic business environ

ment we'll face for the foreseeable future. They will be seen as integral parts of their firms and valuable contributors to their success

certain future.

Those shops that play defense by clinging too tightly to historical approaches or that are too slow and inflexible to accommodate a fast-paced business environment will face an un-

What does it mean for IT people? Solid opportunity for those who are ready, and obsolescence for those who are not. Traditional jobs, like application development and systems support, will remain important to IT organizations, but there won't be as many of them because the use of third parties for traditional skills will continue. Leadership, financial and business disciplines, vendor governance, project

management, systems integration, architecture and relationship manage-

ment are among the skills that IT professionals will need in the future Those individuals who actively manage their careers to keep their skills sharp and relevant will experience tremendous opportunity for growth. Those who cling to past skills and job descriptions or who look to someone else to manage their careers will unfortunately struggle. O 53735

WANT OUR OPPOSIT

house, but the ways from the trench-

es is that Windows will be the way

admin-freedly corner around.

MIS technician. The Times

News Inc., Lehighton, Pa.

Beware of Project

I II MY EXPERIENCE, project to

sorship is something companie

straggle with ["How to Sponsor a Project," QuickLink 52996]. One

piece of advice that I've given

mentioned in the article are an

pise@monline.com

Assumptions

Jacque Sipe

None columnsts and links to archives of previous columns are on our Web site:

ions are being made about about the project when it starts, and what may constrain the project perto go until an QS that is as user- and

formance? This also plays into risk Bob Tarme, PMP Senior consultant, Project

Management Solutions, Shawner, Kan. btame@yahos.com

COMPUTERWORLD welc comments from its readers. Letters will be edited for brevity and clarity They should be addressed to Jamie Ecide, letters editor, Coreerworld, PO Box 9171, 1 Speed Street, Framingham, Mass. 01701. Fax: (508) 679-4843. E-mail:

include an address and phone number for immediate verification

Mac OS Can Learn From Windows

RECOUNTING a mid-190s discussion with Bill Gates ["Apple. Here to Stax.* QuickLink 529301 Don Tennant was streetical about Gates' statement that "there's a ton of things even in Windows 3.1 that the Mac doesn't have, that someday they'll probably add to then

A couple of years after the re-lease of Win 95, Lattended an Ap ple event celebrating the new legtures in Mac OS 8.0. As I set wetchthis operating system version that offered hill-somen wolksoper (a ture of Win 3.1), internet options (catching up with Win 96), systerreide cound effects (another Win 3.1 feature) and more, I said to the longtime Mac user sitting be-

side me that this was Apple's at ternot to maintain party with Win

Manifest Destiny

HAD ABSOLUTELY NO INTENTION of writing about globalization again this week. I'm loath to belabor the issue, or perhaps more accurately, to further belabor it. Plus. there are a lot of important news stories in this week's issue that would be really cool to write about to hopefully spark some discussion in other areas.

But the "IT Inbreeding" column I wrote three weeks ago that caused such a commotion [Quick-Link 53377] did a disservice that needs to be addressed promptly. It was a disservice not for the reasons that were articulated in all those readers' letters we printed in last week's issue [QuickLink 53571] and in the dozens of oth-

ers we didn't have the space or permission to print, but for a reason that was articulated last week by, of all people, Mikhail Gorbachev. In my column, I said companies

that outsource work to rural locations in the U.S. as an alternative to offshore locations need to weigh the opportunity cost of not having that contact with non-U.S. cultures and markets. My broader point, and my reason for using the controversial "inbreeding" analogy, was that we benefit more from outside engage ment than from insularity. But the point I failed to make, and hence the disservice is this: We simply can't

and must not be concerned solely with what benefits us in this country. Speaking at a meeting of the Massarbusetts Software Council in Boston. Gorbachev called on the IT sector and U.S. leaders to develop partnerships with other nations and to set over the fear of IT advances in other countries. Such partnerships will foster a "secure, just and democratic world order," Gorbachev said. "The [current] state of global chaos is

not good for anybody." He went on to appeal to the IT community to help narrow the gap between the rich and poor. which would in turn aid in creating a "new world order" that will be "more stable, more just and more bumane." The premise is that as a rich nation, we have the obligation to help those

who are less fortunate. ludging from the letters I've received, a whole lot of Americans just don't buy into that premise. One of the hardest-hitting letters

was from an IT professional and mom who said she was "saddened" by my column. "Of course, I was already sad," she said, "at the plight of my fellow IT professionals, many of whom will never work in this profession again, whose skills, intelligence, energy and expensive education and training have been flushed down the toilet by their own country." She said the'd been laid off in 2001, and it took her 10 mooths to find another job, "We fended off homelessness by the skin of our teeth," she said.

I. in turn, was saddened by her account, as anyone would be. It's simply unacceptable that she was put in that position. My problem is that I find it equally unacceptable for any mom anywhere to be put in that position. I'm simply unable to rationalize the notion that we as Americans should consider ourselves inherently more worthy of a decent livelihood simply by virtue of the fact that we had the incalculable good fortune of being born or otherwise gaining citi-

zenship here. If we have a manifest destiny, let it be to improve the lot of all mankind. No one has done more to achieve that end than U.S. technology professionals. Don't lose sight of that calling now. O 53766





THORNION V MAY Mainstream Can't See IT Individuality

N A RECENT EPISODE of the comedy/drama Boston Legal, a senior partner asks the lithe and exotic female associate. Tara. if Denny Crane (who is played by William Shatner, better known to the IT community as Capt. Kirk from the space opera Star Trek) had at any time done something to objectify her. Tara replies, witbout malice or concern, and apparently

quite pleased with the situation, that all men objectify her While Tara may find her objectification a vital, or at least nontoxic, part of her workplace identity, sociologists, anthropologists and most behavioral psychologists will tell you that it's bad

to be thought of as an object. In being an object, you cease to be a person. You are presumed to possess traits that others accomists with the

class of objects you are labeled as belonging to Which brings us to the world of IT. A review of media treatmeets and communicorion patterns cur-

rently being done at the IT Leadership Academy indicates

that most people outside our industry and virtually all media outlets objectiby IT professionals. While objectification is thought to be a very good thing in the world of software development. when it comes to the evolution of our industry, our profession and your own career, it's a very bad thing. IT professignals are viewed as tech objects -"Fix my PC," "Make my e-mail work"

- and frequently nothing more. Every journalist, researcher and professor in this business has been asked by vendor CEOs and marketing chiefs, So tell me, what are CIOs thinking these days?" Is this not objectification:

Of course, many professions suffer from this sort of thing. The financial world has Wall Street. Politicians have Main Street, Marketers have Madison Avenue. Stretching a bit, we could

claim that centure capitalists have Sand Hill Road. Though these thoroughfares do exist, they are used more as pathways of thought, fraught with meaning. As such, they are shorthand references to the compendium of understanding regarding a certain industry There's no byway for IT as yet. But before we can create a road of our own (Rue du Tech?), we need to do a bit of surveying. The IT Leadership Academy's examination revealed that the mental processes of IT leaders are for

the most part unmapped and pourly understand

CIO Institute and the CIO Solutions Gallery at the Fisher College of Business at Ohio State University will tell you that the IT community should by pursed on three dimensions at the very least: the size of the company, the qual ity of its IT shop and the vertical morket it's in. Simply focusing on one dimension - say, vertical markets isn't enough

For example, if one were to compare the mental models and day-to-day business behaviors of Mary Adams at Ford, Ralph Szygonda at General Motors, Barbara Cooper at Toyota and Rich Hoffman at Hyundai, one would find fundamentally different approach es to creating value with IT.

I'm very fortunate to have met and become friends with many high-impact CIOs. Having spent a great deal of time with these individuals, I can state most emphasically that IT leaders are deliciously, demonstrably and dramatically different. Anyone who doesn't realize that is just plain nuts.

IT professionals are people worth knowing who deserve to be treated as the wonderful individuals they are.

DOBN PARKER IT. Workers Can't Cling To the Past

RECENTLY attended a meeting that staved on my mind for quite a while. It's clear that as my company changes to meet the future, it creates uncertainty about IT jobs. This uncertainty makes career planning difficult for our technology professionals, and some frontline IT people had asked for

help sorting it all out. The meeting was still rattline around in my head when I received three manazines in the mail. One tar geted CEOs, another CEOs. and the last one board members. This coincidence led to a sauck look, which yielded some surprises. The IT-related content was re markable. One-third of the

CFO publication focused on outsourcing networks, on demand IT, storage, busimore intelligence technologies, and strangely, XML. The board magazine descrissed recruiting CIOs for board

membership and the merits of board level IT committees. The CFO publication even discussed innovation through IT, mestcad of the usual costcutting

I believe these publications are on target IT is clearly on the minds of those who run our compones - in spite of the buzz a few munths back that IT is no longer an important arrow in a company's quiver - for three primary reasons:

1. Running a significant business without solid IT solutions is virtually incomonicable 2. The Sarbones-Oxley Act and other regulations increase the focus

on corporate controls and financial operations and have significant IT implications.

3. Businesses are shifting value-building investments Emphasis on innovation. growth and revenue gener

will lead to introctant III IT's importance is clear but that doesn't make the technology alone stratego Business personnel no

longer use technology as a silver bullet, as some did during the Internet boom They now use that IT tools are only as good as those wielding them, which puts the strategic premium on tradi tional elements such as corporate

strators, customer service, unitame product offerings and execution What does this mean far IT shops Renewed focus on traditional busi

ness disciplines ensites tremendous opportunities for IT shops. The key is establishme a collegial alterment with business personnel as strategies and objectives are developed. This insucht can be used to develop a two-to-threeyear technology implementation plan to support business activities and cre-

and value. Those shops that play offense by aligning correctly, executing flawlessly establishing the right mix of internal and third-party solutions, and investine wisely will thrive while accommodating the dynamic business environ

ment we'll face for the toreseeable future. They will be seen as integral. parts of their firms and valuable con

Hose shops that play deterse by they his to a commodate a tracey, of business environment will tace an un

What does it mean for IT people: Solid opportunity for those who are ready, and obsolescence for those who are not. Traditional jobs, like arplication development and systems support will remain important to 17 organizations, but there won't be as many of them because the use of third parties for traditional skills will continue Leadership, financial and business disciplines, vendor governance, project management, systems integration, architecture and relationship manage ment are among the skills that El pro-Those individuals who actively may

age their careers to keep their skills sharp and roles int will experience tremendous opportunity for growth. Those who cling to past skills and job descriptions or who look to someone else to manage their careers will unfor tunately struggle © 53735

WANT OUR OPINION?

More columnets and links to archives of previous columns are on our Web site. sterworld com/colum

Mac OS Can Learn From Windows lakes he the upy hors the trench-

N RECOUNTING a mid '90's dis ussion with Bill Gates ("Apple Here to Stay," Quicklusk 529301 Don Tennant was skeptical about Gates' statement that "there's a ton of things even in Windows 31 that the Mac doesn't have, that someday they'll probably add to their

A couple of years after the reivese of Win 95. Lattended an Ap ple event colebrating the new fee tures in Mac OS 8 0 As I sat watching this operating system version

that offered beli-screen wallraper (a. Seature of War 3 ft Internet continue (catching up with Win 95), sesterrwide sound effects (another Win 31 feature) and more, I said to the longtime Mac user sitting beside me that this was Apple's attempt to maintain party with Windown 95

Clearly Microsoft has notice a lot of mileage out of leasures that appeared first in the Mac OS (as Gates begrudgingly admitted in Tennant's column). But it has by no means been a one-way street Alan Zoman

Computer teacher. Vancouver School District Vancouver, British Columbia

M AC OS X MAY BE a ricestill leaves much to be desired. For example retworking in an environ ment where multiple servers are used is decidedly flaky, permissions must be changed to do simple things like adding forts or nonstan

gord printers, and administrative access is difficult People may see the end of Microsoff's dominance in the near

es is that Windows will be the way to no until an OS that is as user, and admin-friendly comes around Jason Sise MIS technician. The Times News Inc., Lehighton, Pa.,

inne@topoline.com Beware of Project Assumptions

N MY EXPERIENCE, project spon-sorship is something companies struggle with ["How to Sponsor a Project." Quicklank 5/29961. One piece of advice that I've over clients is for the sponsor to write the project charter and not use sup off on 4. This shows a true commit

reent to the project. Key things to include that aren't repetunged in the article are to sumptions and constraints. What

assumptions are being made about about the project when it starts, and what may constrain the project perlormance? This also plays into risk analysis.

Bob Tarne, PMP Senior consultant, Project Management Solutions.

Showner Kan biorne/avahoo.com

COMPUTERWORLD welcomes comments from its readers. Letters They should be addressed to toma Folds latters artire Comauterworld, PO Box 9171, 1 Soper Street Frammoham Mars. 00201 Fax (506) 879-4843. E-mail letters/Pcomputerworld.com Include an address and phone

number for immediate ventication For more letters on these and other topics, go to

HANDY



Our color printers, multifunction systems, spectrum itself. So one is sure to fit your business

Color is improving work everywhere. And Xerox is making integrating digital color into your work environment easier than ever. Our systems are easy to install, configure and manage. And every one of our award-winning digital color devices is compatible with all standard operating systems and graphic standards. We offer a wide range of speeds



Xerox color printers multifunction systems

xerox.com/color 1-800-ASK-XEROX ext. COLOR

@ 2005 XERCIX CORPORATION As rights received. XERCIXP and Xursx Color It makes business series are indemnds of XERCIX CORPORATION in the United States and/or other countries.



and digital presses are as varied as the business like a glove. Xerox Color. It makes business sense.

with incredible quality and reliability. Our machines are self-diagnostic so potential problems can be prevented before they occur. But if you do need service, our team is second to none. Truth is, we're cost efficient up and down the line, from products, to supplies, to service. Why not try Xerox color on for size? You'll find it works hand in glove with your business.

XEROX.

Technology Document Management | Consulting Services

Can you see it?

- 1. Endorsement deal e-mailed to agent.
- 2. Ible serial numbers to vendor, securely.
- 3. Staff shares updated model specs.
- 4. Production goals posted to team space

5. New product launched in record time.

MIDDLEWARE IS IBM SOFTWARE. IBM Workpisce" Services Express software. Designed and priced for mid-sized businesses, it's how to collaborate from anywhere. At any time, Built on open standards, it can keep your business flexible, more responsive. It's easy to implement, easy to manage. It can help you make better, more informed decisions and not miss a beat.

Y 12:50 P.M. Central time on Feb. 28. Verizon Communi tions Inc. had already logged 1.7 million Web services tra actions for tasks like looking up customer addresses and

ng new services. The New York-based telecommun

cations company averages about 2.5 million to 3 million Web services transactions a day, anchored by its mostly homogrown service-oriented architecture (SOA), a platform that was two and a half years in the making Dubbed the IT Workbench, the SOA supports the design, deployment and management of Web services. It went operational early last year and has helped the company slash its IT bud-ger by 50% by eliminating redundant systems inherited from the merger of Bell Atlantic and GTE, which spawned

Verizon has also tackled some of the nost vexing hurdles associated with Web services as part of the IT Workbench project, such as managing and securing the services, charging for reuse and monitoring the performance of service-enabled transactions.

IT WORKBEHCH

The project was born in 2002 as executives began looking to reduce inefficiencies in software development, says Shadman Zafar, Verizon's senior vice president of architecture and services Consolidating application development was key for Verizon, which found inself with multiple groups often duplicating efforts after the merger.

Executives focused on the 250 mos important business transactions the company performed, such as verifying customer credit histories and looking up customer information. On average, each transaction had been developed five to 25 times; one was deployed 45 different times, Zafar says. The duplication was draining developer productivity and created needless ongoing tenance costs.

The company decided to use Web services to expose the application programming interfaces of common transactions as XML which could be consumed by the Simple Object Access Protocol (SOAP) standard and used by multiple lines of business.

Zafar says he spent much of 2002 and 2003 evangelizing to developers about the potential benefits of Web



services — especially to the two "religious" camps of. Net and Java developers. Despite some initial resistance, these groups warmed to Web services once project leaders demonstrated that the standards could allow Net developers to consume Web services-enabled Java applications and Java developers to use. Net Web ser-

vices, Zalar says.
His efforts to promote the use of
Web services were backed by Verizon's
C(O, who included target merics for
Web services usage as performance
measurements for company (vice presidents. "Verizon took a very aggressive
wer of Web services." Zafar says." We
were not toying with it. We took it as a
business metric, and we had to meet a

very tough business metric."
Zafar set an initial target in 2004
of building 10 applications and 10
transactions on the TT Workbeach as
Web services. The company instead
actions. At the beginning of the year,
Version was supporting 10,000 Web
services transactions per day, by the end
of 2004, the daily average had skyrockedid to 25 million to 3 million per day,
Burton Group in Midvale, Utah, says
this number of transactions per day,
this number of transactions per day.

qualifies as one of the largest corponate deployments of Web services. "Vertrom appears to have embraced 'ture' SOA." the says. "Their goal was to reduce redundancies by building shared reasable services. A few other companies have able embraced SOA, but most companies that I've worked with are still more focused on using Web services for integration as opnosed to a real architecture of apolica

tions based on SOA design principles."
Now, Verizon is filing patents for some of the technology it built to anchor its use of Web services, and both BEA Systems lac. and IBM have approached the company about licensing its homogrown platform so they can offer it as part of their application server software stacks, Zafa says.

INSTITUTIONALIZING WEB SERVICES With the CIO's mandate in hand, Zafar's

group in 2004 set about institutionalizing the use of Web services. After an initial seet project to demonstrate that Web services would allow Verizon's billing and wholesale departments to pass a customer record between pyitems using SOAP. Zafar worked on a process to ensure that development projects would focus on Web services. At the beginning of 2004, Verizon began funnelling each development



project for key business transactions through two groups. One ensured that new applications represented useful transactions that could be used by more than one group in the organization, and the other identified which transactions

the other identified which transactions could be deployed as Web services. In addition, Zafar required all new development projects to get his approval before going into production.

going into production.
"Key transactions have to
he developed as Web services ... so it is a common
platform so other consumers of the same services
... can use them." Zafar
says. "If developers want to

ssys. "If developers want to realize the dream of getting an application into production one day, they have to pass through this gate."

Verizon has limited access to the
Web services to development projects
to further reduce duplication. Web
services transactions can't he added to
applications already in production
"Each development group is a pub-

lisher of services and a consumer of other people's services," Zafar notes. "You are almost forcing a reduction of duplicate effort and leveraging crossportfolio development."

On the technology side, project sanagers began designing a framework to handle the cataloging, security and management of the Web services. The top priority was making the framework easy to use, says Ruchir Rodrigues, Verizon's executive director

Modragues, verzon s executive director of architecture and e-Services. To keep maintenance costs low, Verizon choss a decentralized, agent-based approach to its SOA rather than a broker-based system where all service requests

than a brouze-tused system where all service requests are handled by a server or set of servers, Rodrígues says. "We didn't want to get into the maintenance hassle of maintaining these servers with fail-over,"

Verizon custom-developed agents or small code libraries that sit on all list application servers to intercept various pieces of information about the services, like usage, response time and IP address, as they flow back

and forth. This information is put into a log file and shipped to the IT Workbench portal to be processed. The agents support the subscription, management and dashboard layers

management and dashboard layers of Verizoe's SOA. The subscription layer allows developers to publish and consume Web services and to set up service-level agreements regarding their use of the services. By linking developers through the portal, Verizon supported its goal of making the use of Web services as nonintrusive as possible. Rodrigues says. "If I didn't have an IT Workbench platform and I wanted to use somebody else's Web service, I would have to call him," he says. "We wanted to start reducine that interac-

would have to carried that interaction and making it easier for people to get to the Web services."
IT Workbench project manager Mehul Shah, who helped design the management layer, says he relied on his

management layer, says he relied on his experience designing network management systems. The agents sitting on the application servers act as "aniflers' to log different management data at the Web services endpoints, he says. The third layer of the SOA is a dash-

The third layer of the SOA is a dashboard application that allows Vertron to track Web services transaction volumes by line of business on a duly basis. IT has until recently used this information to twest hardware resources to support load levels. However, early this year. Verticon IT merow, and the superaction of the system is now so big, the company will move responsibility for the opertion of the IT Workbench to the data center. Rodrieuses surs.

EXTERNAL INTEGRATION The IT Workbench is focused on inter-

nal integration using Web services. For external integration with butiness partners, Vertaco basew is wanted a handware gateway to insulate its intrances from the outside world. But it struggled to find a vendor that could meet its performance demands evoking a service in less than 10 milliseconds. according to Rodritures—

Finally, Verizon tested a management gateway from Santa Monica, Calif-based SOA Software Inc. (formerly Digital Evolution Inc.) that the company now uses for managing and securing Web services between Verizon and telemarketing partners to ex-

change customer data. Verizon is moving deeper into the transactions used by each line of business and plans to support 33 million web services transactions per year, says Zafar. But the SOA has already helped the company to break down many of the walls separating its 7000

developers, he adds.
"This has almost become a virtual meeting place of developers," Zafar says. Developers talk a lot more across organizations because of the platform. "Man the beau meetings" he are the platform."

says. Developers talk a lot more across organizations because of the platform. "When they have questions," be says, "they will call another developer as opposed to developing something else." 0 53637

BRIEFS

OpTier Transaction Manager Ships

OpTier Inc. In New York has ansunced the availability of Core ns in real time and provid ice levels as well as opti the resources of their IT infrastructure, says OpTier. Pricing starts at \$100,000.

FineGround Delivers File Services App

FineGround Inc. in Campbel city-FS, an appliance for the ed in front of data con storage and file systems to opti-mize file service traffic for distribn over the WAN, and it's deed to preserve rights manent and access control, se ing to the company. Velocity-FS

AXS-One Upgrades Financial Manager

Rutherland, N.J.-based AXS One Inc. has begun shipping En-terprise 9.0 - Compliance Edition at version of its finan -UX. IBM's AIX and Sun's Soports, an XML user in

Tag Teams Wrestle With Web Content

ESKTOP SEARCH TOOLS have done wonders in allowing me to gain control over information once it's on my desktop, but that begs the question: Does all of that stuff need to be there in the first place? If the source of the information is the Web, the answer may be no. A better way for information workers to accumulate and organize information is to leave it where they found it and provide a pointer or

bookmark to that content.

Unfortunately, browserbased bookmarks can quickly become unwieldly to manage. That's where social book marking Web sites such as Del.icio.us come in. These popular services combine one-click bookmarking of Web pages with an ad hoc tagging system. Users create their own keywords and short descriptions and associate them with each bookmark. They can then view their own Web site links, sort them by keyword and view the links

of other participants who used those These aggregations of Web content created by like-minded individuals, can provide quick access to related information in the correct context - something that's more difficult for search engines to achieve. And because the bookmarks

are on the Web rather than within a single instance of a browser, they can be accessed from any computer with an Internet connection.

The phenomenon of shared tagging of Web pages and other types of online content is spreading at a quickening pace. Del.icio.us, which launched in late 2003, was the first social bookmarking Web site. Today, users can choose from a variety of free services. These include Flickr, which lets users upload, tag and share photos online: Technorati, which

lets users tag and track blog content; and Spid.ero.us. which summarizes tassing activities across multiple social bookmarking sites. Enthusiasts see social

bookmarking as a way to index the Web, but it could also become a powerful tool for enhancing the productivity of distinct groups, or communities, within an nrgamization.

Today, the taxonomies that organizations create for categorizing content don't necessarily match the needs of every individual or group, aren't always well followed and must continually be kept up to date. They may provide the structure an organization needs for regulatory compli-

ance purposes, but they don't always pass the "what's in it for me" test. The process of adding tags that you don't buy into becomes a chore - one that many users dispense with quickly by choosing a default or the first keyword in a list that even remotely relates

to the content. While tools that automate the categorization process relieve users of the task of selecting tags from canned category lists, the keywords still aren't personalized: they're part of someone else's taxonomy. And if the user can't categorize content in a way that's consistent with the way he thinks about his job, he is

unlikely to take full advantage of it to help him do that job better

Social tassing creates an ad hoc taxon omy of sorts, although it lacks a formal structure or hierarchy. This *folksonomies created by regular folks rather than professionals - can't replace more formal structures needed in areas such as compliance management. But it could

become a strong complement Enterprise portals and content management tools that enable social bookmarking of Web, intranet and other content, for example, could help groups within an organization become more efficreated and maintained by the communi-

cient. These self-selecting sets of links. ties that need them, could benefit everyone, from technical support to field sales. Within tech support, for example, links to key technical data in supplier

Web sites, bloss or discussion forums could organically establish themselves as users within the group find, categorize and rank page links. Participants could see and use the tags their peers have created or could create their own in the process developing a group taxonomy that could be shared within a department or an organization, or with the world.

That prospect has vendors such as portal software firm Plumtree Software rushing to fit the concept of social tagging within their own products. And for organizations that can't wait and want to experiment with their own implementations, the De lirious social bookmarking Web site (http://de.lirio.us/rubric) makes its Rubric engine and software templates available as open-source.

The use of social tagging techniques across the World Wide Web has established itself in a little more than a year. The technology may take longer to catch on in the enterprise, but for many users. it will be worth the wait. O 53745

Fer more columns and links to our archives, go to

services - especially to the two "religious" camps of Net and Java developers. Despite some initial resistance, these groups warmed to Web services once project leaders demon strated that the standards could allow Net developers to consume Web services enabled Java applications and Java developers to use. Net Web ser-

vices. Zafar says

His efforts to promote the use of Web services were backed by Verizon's CIO, who included target metrics for Web sorce of many as ne formance measurements for company vice presidents "Vertion took a very aggressive view of Web services," Zafar says "We were not towing with it. We took it as a husiness metric, and we had to meet a

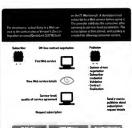
very tough basiness metric." Zafar set an initial target in 20th of hullding ID applications and ID transactions on the IT Workbench as Web services. The company instead built 57 applications and 200 transactions. At the beginning of the year, Verteon was supporting 10,000 Web services transactions per day; by the end of 2004, the daily average had skyrocketed to 2.5 million to 3 million per day. Anne Thomas Manes, an analyst at Burton Group in Midvale, Utah, says this number of transactions per day qualifies as one of the largest corpo-

rate deployments of Web services. "Verizon appears to have embraced 'true' SOA," she says. "Their goal was to reduce redundancies by building shared reusable services. A few other companies have also embraced SOA. but most companies that I've worked with are still more focused on using Web services for integration as opposed to a real architecture of applica-

tions based on SOA design principles." Now. Verizon is filing patents for some of the technology it built to anchor its use of Web services, and both BEA Systems Inc. and IBM have approached the company about licensing its homegrown platform so they can offer it as part of their application

surpor software stacks. Zafar says INSTITUTIONALIZING WEB SERVICES

With the CIO's mandate in hand, Zafar's group in 2004 set about institutionalizing the use of Web services. After an initial test project to demonstrate that Web services would allow Verizon's billing and wholesale departments to nass a customer record between systems using SOAP, Zafar worked on a process to ensure that development projects would focus on Web services. At the beginning of 2004, Verizon began funneling each development



SLA data store

project for key business transactions through two groups. One ensured that new applications represented useful transactions that could be used by more

than one group in the organization, and the other identified which transactions could be deployed as Web services. In addition. Zafar required all new development projects to get his approval before

volve into production be developed as Web services ... so it is a common platform so other con sumers of the same services

can use them," Zafar says. "If developers want to realize the dream of getting an application into production one day. they have to pass through this gate."

Verizon has limited access to the Web services to development projects to further reduce duplication. Web services transactions can't be added to applications already in production "Each development group is a pub-

lisher of services and a consumer of other people's services," Zafar notes. "You are almost foreing a reduction of duplicate effort and leveraging crossportfolio development

On the technology side, project managers began designing a framework to handle the cataloging, security and management of the Web services. The top priority was making the

framework easy to use, says Ruchir Rodrigues. Verizon's executive director of architecture and eServices. To keep maintenance costs low, Verizon chose a decentralized, agent-based approach to its SOA rather

than a broker-based system where all service requests are handled by a server or set of servers Rodrigues says, "We didn't want to get into the maintenance hassle of maintaining these servers with fail-over." he adds.

Verizon custom-develneed agents or small code libraries that sit on all its application servers to intercept various pieces of information about the services, like usage, response time and IP address, as they flow back and forth. This information is not into a log file and shipped to the IT Work-

bench portal to be processed. The agents support the subscription. management and dashboard layers of Verizon's SOA. The subscription layer allows developers to publish and consume Web services and to set up service-level agreements regarding their use of the services. By linking developers through the portal, Verizon supported its goal of making the use of Web services as nonintrusive as possible, Rodrigues says, "If I didn't have an IT Workbench platform and I wanted to use somebody else's Web service. I would have to call him," he says "We wanted to start reducing that interaction and making it easier for people to

get to the Web services IT Workbench project manager Mehal Shah, who helped design the management layer, says he relied on his experience designing network management systems. The agents sitting on the application servers act as "sniffers" to log different management data at the Web services endpoints, he says

The third layer of the SOA is a dashboard application that allows Verizon to track Web services transaction volumes by line of husiness on a daily basis. IT has until recently used this information to tweak hardscare resources to support lead levels. However early this year. Verizon IT man agement decided that because the system is now so big, the company will move responsibility for the operation of the IT Workbench to the data center, Rodrigues says.

EXTERNAL INTEGRATION The IT Workbench is focused on inter

nal integration using Web services. For external integration with business partners. Verizon knew it wanted a hardware gateway to insulate its intranets from the outside world. But it struggled to find a vendor that could meet its performance demands seconds, according to Rodrigues.

Finally Verison rested a management gateway from Saota Monica. Calif-based SOA Software Inc. (formerly Digital Evolution Inc.) that the company now uses for managing and securing Web services between Verizon and telemarketing partners to ex-

change customer data Verizon is moving deeper into the transactions used by each line of business and plans to support 33 million Web services transactions per year, says Zafar. But the SOA has already helped the company to break down many of the walls separating its 7,000 developers, he adds.

"This has almost become a virtual meeting place of developers," Zafar says. Developers talk a lot more across organizations because of the platform. "When they have questions," he says. "they will call another developer as opposed to developing something cise." O 53537

On Tier Transaction Manager Ships

On Tier Inc. in New York has announced the availability of Core-First, an application for automatically preventing performance problems in real time and providno transaction-level visibility into multitier workleads in production. according to the company. Core-First is designed to ensure consistent, predictable performance for IT business services, giving organizations the ability to ensure service levels as well as optimize the resources of their IT infrastructure, says OpTier. Pricing starts at \$100,000.

FineGround Delivers File Services App

 FineGround Inc. in Campbell Velocity-FS, an appliance for the data center that's designed to help deliver high-performance file services over WANs. The product is installed in front of data center storage and file systems to getimize file service traffic for distrib ution over the WAN, and it's designed to preserve rights man agement and access control, se curity and other features, according to the company. Velocity-PS will be available in June, starting at \$20,000

AXS-One Upgrades Financial Manager

W Rutherford, N.J.-based AXS One Inc. has begun shipping En terprise 9.0 - Compliance Edition the latest version of its financial management system. The soft ware, which runs on Window HP-UX IBM's AIX and Sun's Solaris, includes integration with Crystal Reports, an XML user interface and enhanced cycle man ment products, such as budget, expense and purchase cycle went, the company says ndle of up to four compor les starts at \$25,000 con dule. The average upgrade

Tag Teams Wrestle With Web Content

ESKTOP SEARCH TOOLS have done wonders in allowing me to gain control over information once it's on my desktop, but that begs the question: Does all of that stuff need to be there in the first place? If the source of the information is the Web, the answer may be no. A better way for information workers to accumulate and organize information is to leave it where they found it and provide a pointer or

bookmark to that content.

Unfortunately, browserbased bookmarks can quickly become unwieldly to manage. marking Web sites such as Delicious come in These popular services combine one-click bookmarking of Web pages with an ad hoc tagging system. Users ereate their own keywords and short descriptions and asso ciate them with each bookmark. They can then you

their own Web site links, sort them by keyword and view the links of other participants who used those These aggregations of Web content

created by like-minded individuals, can provide quick access to related information in the correct context - something that's more difficult for search engines to achieve. And because the bookmarks are on the Web rather than within a single instance of a browser, they can be accessed from any computer with an

The phenomenon of shared tagging of Web pages and other types of online content is spreading at a quickening race. Delicious, which launched in late 2003; was the first social bookmarking Web site. Today, users can choose from a variety of free services. These include Flicky which lets users unload, the and share photos online: Technorati, which

lets users ray and track blog. which summarizes taxonic activities actus multiple social bookmarking sites Enthususts see social

bookmarking as a way to index the Web but it could also become a powerful tool for enhancing the producments of distinct groups, or communities within in organization.

Today the taxonomics that organizations create for categorizing content don't necessarily march the needs of every undividual or group, aren't always well followed and must continually be kept up to date They now provide the structure an organization needs for regulators compli-

ance purposes, but they don't always pass the "what's in it for me" test. The process of adding tags that you don't buy into becomes a chore - one that many users dispense with quickly by choosang a default or the first keyword in a list that even remotely relates

While tools that automate the caters rization process relieve users of the task of selecting tags from canned categors lists, the keywords still aren't personal ized; they're part of someone else's taxonomy. And if the user can't categorize content in a way that's consistent with the way he thinks about his job, he is

unlikely to take full advantage of a to

Social tanging creates an ad box taxon omy of sorts, although it lacks a formal structure or hierarchy. This Trolles onomies created by regular tolks rather as compliance management. But it could

become a strong complement Enterprise portals and copie ni mon gement tools that enable social book marking of Web intranet and other content for example, could help groups within in organization became more efficient. These self-selecting sets of links. created and maintained by the communities that need them, could benefit everyone, from technical support to field sales.

Within tech support, for example, links to key technical data in supplier Web sites, blogs or discussion forums could unamically establish themselves as users within the group find, categonor and rank rose links. Participants could see and use the tags their peers here excited or could create their own in the process developing a group taxon omy that could be shared within a department or an organization, or with the world

That prospect has vendors such as portal software firm Humtree Software rushing to fit the concept of social tagging within their own products. And for uncanizations that com't wan and want to experiment with their own implementations, the Delarayay social bookmarking Web site there: de hrioux rubric) makes its Rubric engine and software templates available as open-source

The use of social cassing techniques teros the World Wide Web has established itself in a little more than a year. The technology may take longer to catch on in the enterprise, but for many users. it will be worth the wait. O 53745

For more columns and limbs, to not writings, so I www.computerworld.com/opinions

Don't Miss

Nominate an outstanding IT leader for Computerworld's Premier 100 IT Leaders 2006 Awards program

EACH YEAR, Computerworld editors conduct a nationwide search for IT managers and executives who show technology leadership in their organizations. This prestigious awards program recognizes and honors IT professionals from a wide range of industries, drawing attention to the innovative business-critical



work they do. ELIGIBLE NOMINEES include CIOs, CTOs, vice presidents, IT directors and managers from user companies, nonprot





Deadline for Nominations Is May 31

Questions? Contact us by e-mail at premier100@computerworld.com.





Learn Proven, Top-Down Strategies to Achieve **Enterprise Mobile and Wireless Success**

June 13-15, 2005 • The Westin Kierland Resort • Scottsdale, Arizona



ANDRES CARVALLO

PHIROZ DARUKHANAVALA

RON FUALKOWSKI CIO Strategic Distribution Incorporated

ERNEST PARK

DALE FRANTZ

The Leading Conference for:

- IT Management
- Mobile/Wireless Technology Architects and Implementers
- Mobile-intensive Application Wreless LAN/Wi-Fi/Network

Professionals Topic Areas include:

- Top-down Planning for Enterprise Wireless Infrastructures
- · Building and Defending the
- **Business Case**
- Adapting Desktop Applications to Handhelds Using Broadband Wreless ISPs
- RFID
- · Cellular Mobile Data and Carrier
- WLANs and Security

To register or for more information, visit www.mwww.sa.com/cwt

2005 Auests Program intal

Mobile & Wireless World 2005 sponsors includ





For sponsorship opportunities, call John Amato at 1-508-620-6279



"... a very practical environment where users learn from the successes of their peers ..."

David B. Gam

... extremely well organized and an excellent opportunity for exchanging ideas and sharing

information ..." Rick Pople VP of Operate NYK Logistics











3:45pm - 4:00pm 4:00om - 5:15 pm 5:30pm - 8:00pm

Connect Proven Mobile & Wireless Solutions to your Enterprise Strategy

Are mobile and wireless technologies pushing your enterprise envelope? is the proliferation of more devices challenging your organization's ability to stay on the cutting edge? Do you need to learn how other companies and industries apply the latest and greatest mobile and wireless tools? Then attend Computerworld's Mobile & Wireless World Conference, the place where you can gain first-hand, cutting-edge knowledge that can enhance your organization's mobile and wireless strategies.

Conference At-a-Glance (subject to change)

For details, updates, and to register visit www.mwwusa.com/cwl

MONDAY, JUNE 13

10:00am - 8:00pm	Registration Open	
Noon - 5:00pm	Golf Outing	
1:30pm - 3:20pm	Concurrent Industry Pipeline Sessions	
3:30pm - 5:00pm	Technology Workshop	
7:00nm = 9:00nm	Welcome Reception	

nology Workshop Welcome Reception

TUESDAY, JUNE 14		
7:30am - 7:00pm	Registration Open	
7:00am - 8:15am	Buffet Breakfast	

Opening Visionary Presentation End User Case Study

Phiroz Darukhanavala, Chief Technology Officer, British Petroleum

End User Case Study

Industry Leader Presentation

End User Case Study Andres Cavallo, Chief Information Officer, Austin Energy

Penel Discussion Luncheon

General Sessions End User Case Study Date Frantz, Chef Information Offices,

Auto Warehousing Company Break

Concurrent End User Case Studies Solutions Showcase & Expo with Buffet Dinner



COMPUTERWORLD

WEDNESDAY, JUNE 15

7:30am - 6:00pm Registration Open 7:00am - 8:15am Buffet Breakfast

8 15am - Noon

General Sessions 8:15am - Noon End User Case Study

John Wade, Chief Infor tion Officer. Sant Luke's Hospital Noon - 1:30pm Solutions Showcase & Expo with Lunch

End User Case Study 1:30nm - 2:00nm 2:00pm ~ 2:30pm End User Case Study Ernest Park, Chief Information Officer.

Maytag Corporation 2:30nm - 2:45nm Break

End User Case Study 2:45pm - 3:15pm

End User Case Study 3:15pm - 3:45pm rwiss. Chief Information Officer. Strategic Distribution Incorporated

3:45pm - 4:00pm Break

Concurrent End User Case Studies 4:00pm - 5:30pm 5:30cm - 8:00cm Pre-Gala Reception, "Best Practices" Awards Ceremony, and Gala Evening with Dinner

Got an award-worthy mobile and wireless project? mit it for consideration by May 2nd Visit www.mwwusa.com/cwt

2005 Awards Program sponsored by Into

... information and contacts gathered ... play into the decision we make on our

future products and strategy ..." Tom Diffon Manager, Mobile & Whele Hilton Hatels

"... enables me to understand what's going on and what will go on in the future ..."

Ken Venner Broadcom

 I learn what the industry experts see as trends that I should consider in my future purchasing plans ..."

CIO Todd Pacific Shippards

The Westin

Kierland Resort cottsdale. Aczona





Pre-Conference Golf Outing Complimentary for Registered IT Users

The Pre-Conference Golf Outing at the Kierland Golf Club located adjacent to the Westin Kierland Resort is complimentary (\$125 value) for registered IT End-Users (other participants, including sponsors and vendors, may play on an "as available" basis and are responsible for all applicable golf outing expenses). For details contact Chris Johnson at 1-508-820-8652

Hotel Reservations and Travel Services

To reserve your accommodations, please visit: www.etcentral.com

If you have questions about accommodations please contact Global Odysseys at:

IT End-User* Conference Registration Application

Fax this completed application to 1-508-820-8254. Or apply online at: www.mwwusa.com/cwt If not indicated on your business card, please provide the following required information Your business card is

REQUIRED to process your application Corporate Western

tration questions? Cal 1-800-883-9090

or email, menesofficomouterworkscom-Need accommodations? Reserve them at www.etcentral.com or call 1-888-254-1597 or email eventhousing@alabalodysseys.com

Americancy, versure use well as other mones entruser processiones as between by Longuilleworld) may apply for Determination of what constitutes a "non-spensioning vendor" registration is at the sole discretion of Computerworld.

All dollar amounts are in U.S. funds, registrations include full access to all sessions, the Expo, meals and receptions. Transportation and hotel accommodations are your responsibility. Computerworld reserves the right to limit and/or refuse any registration for any reason.

Full/Onsite Registration Earlybird Registration (through May 2, 2005) (after May 2, 2005) □ \$995 \$1,295

☐ 1 am an IT End-User:* If finel flavor are defined as those who are attending Computerworks Mobile & Wireless World with an intent (and an IT spending budget) to potentially buy-flavor In the open are decision as a surface of the control of the contro

analysis, consustants and anyone size interioring who open not report purchasing another than the policy are at the poli

NOTE. If you are not an IT End-User, you may register as a Non-Sponsoring Windo ☐ I am a Non-Sponsoring Vendor:" \$5,000 "Vendors are encouraged to perhopsite in Computerwords's Notice & Winkins World through spondorship, (Details are available by calling Juhn Amato at 1-609-62093).

Alternatives, whoten fair will be other fromit in profuser professionals as before by Computerword) may apply for repositation at the international may be prefer rate.

Attendee Profile: (This section must be completed in order to process your application)

☐ Aerospace ☐ Manufacturing & Process Industries 20,000 or more 10,000 - 19,999 5,000 - 9,999 1,000 - 4,999 ron-computer related Finance/Banking/Accounting rouserce/Rest Estate/Legis Sevices Saverneest Federal Encluding Militar 210000 - 19,99 25,000 - 9,999 21,000 - 4,999 2500 - 999 2100 - 499 21,000 - 499 21,000 - 499 21,000 - 499 rcommit tolde/Legal Sevices ment Federal (including Military) ment State or Local ☐Health/Medical/Dental Services ☐Betales (Morienales/Techniques What is the estimated annual revenue of your entire organization? 30ver \$10 Bitton 3\$1 Bitton - \$29 Bitton 3\$500 Milen - \$999 Millen 3\$100 Milen - \$499 Millen Communication Carners BSP Telecom, Data Comm. TV/Cabrel

June 13-15, 2005

The Windo Kerland Resort

What is your organization's annual (T/IS) budget for all (T/IS products? UMary Ovites
UMary Ovites
UMary Ovites
UMary Office and ovite frament
URbitishing Streates of Advertising
Pulse Brussen Marketing
UBasen Office of the Streat Ovites frame
UBasens Serves Consisted 251 Bhon or more (non-computer related)

[Manufacturing of Computers

four Job Title/Function QCG, CTG, CSG QExecutive VP, Server VP QVec President Director Manager/Other IT Manager Summan

vendors @Specify features/tectinical Set budget for expenditures Discommon need to purchase GEO, COO, Charman, President GCFO, Controller, Teasoure GEouglas VE, Sengr VE, VF General

demonstration project this year's Displaying Wileless Misbilly in the Enterprets Displaying the Brid and World' Enterpret Dispress Entution Tricking Misbilling

QBusiness Interconnect/BPM/Customer es siready receive a subscription addressed Analysics

Dista Management

Missle & Winless

Enterprise Infrastructure/Data Center
Builds.d/Consolidation

Special services required? This (please affect a withen description) □ Network Infrastructure
□ Security
□ Application Development and Integration
(Met Services/SAI) National Information Storage Security Payment Method

G Check (checks must be recoved by May 2, 2005 psystel to: Computerwork).
Mail to Computerwork After Miles Serbats. Dire Speen Street, Francephers, MA. 01701. ☐ American Express ☐ VISA ☐ MasterCard Account Number Execution Date: Evaluate/recommend products, brands Signature of Card Holder

> Concellation Policy (At of the following require written notification by May 2, 2005.) Concussion Princip (or of the following require entrain information by May 2, 2000) in the secret of concessions. The englished it has first options in an analysis of the service of the

MANAGEMENT



WHAT IT Women WANT

> A virtual roundtable of high achievers talks about what today's women bring to IT and what they expect in return.

A&0

in thorrations, the current or discuss the current or discuss the current or discuss the current or discuss the current or discussion of the current or discussion. The forum was sponsored by the New Jersey chapter of the Society for Information Management, and it drew one of the biggest crowds in that chapter's history. Seven of the participonts agreed to meet again, virtually, with Coreput orward's Kathleen Melympas.

As we enter the 21st century, what's new about the problems of women in IT?

WEAVER: Now that IT is evolving to focus on information technology an enabler of business, it's becoming more conductive to women's being able to embrace IT and each. Now it's about understanding the business and elivering technology to bely enable and grow the business versus "Here's the next new box to deablot."

SCITES: IT used to be so much of an individual contributor world, but that

world is changing. Every operation is a team operation. There are multiple disciplanes for IT and many ways in which women can succeed. But the fundamental issue for women is that very few are going into IT. WALK: By 2012, computer profession-

als will be 11% of the total work population in the U.S. By 2031, we will have a 85 million-person labor shortage. In 2030, women in management and professional occupations will be 54% of the workplace. We'll have a huge need to develop women in all professional groups.

Of everything that was said at the SIM panel, what surprised you the most?

SCITES: That we were having this discussion in 2005. I've been involved for 30 years as a female leader, and the fact that we needed as an organization to do this just speaks volumes. The good part is it was wildly successful, so obvisusly, we touched a nerve.

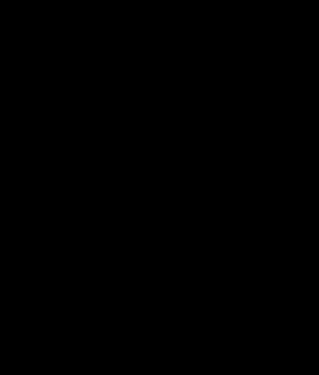
Do IT organization "got" women?

WALK: No. It's still a good-old-boy network. Women have a hard time being heard in the technical arena. If they have ideas, they're not accepted very quickly. If they want to talk about a better way of solving a problem, they're shut down.

BHANDE: One of the big problems is they don't ask what they need to do to attract women. If I get a call from a client and there's a crisis, but the next call is the sure at my child's school, and I going to hop on a plane and fly to Chicago or get in the car and divide to the school'd Many women would to the school'd Many women would work to be compared to the school'd hardy women would work to be compared to the school'd heart women to make that choice, how do we handle that in terms of our need to excel in our careere? That's why lots of women are opting our why lots of women are opting our

CULP: Computer science is the only profession where the numbers of women have gone down.

OALIETT: I've worked in lots of different environments. There's this sense of surrounding yourself with people like you, and sometimes you just don't think women will be like you.





Wom

A virtual roundtable of high achievers talks about what today's women bring to IT and what they expect in return.

in Morristown, N.L. ent for women in IT and its offect on recruiting retention and women's careers. The forum was sponsored by the New Jersey chapter of the Society for Information Management, and it drew one of the biggest crowds in that chapter's history. Seven of the participants acreed to meet again, virtually, with Computerworld's Kathleen Melymuka.

of highly successful

hat's new about the

WEAVER: Now that IT is evolving to focus on information technology as an enabler of business, it's becoming more conducive to women's being able to embrace IT and excel. Now it's about understanding the business and delivering technology to help enable and grow the business versus "Here's the next new box to deploy."

SCITES: IT used to be so much of an individual contributor world, but that

world is changing. Every operation is a team operation. There are multiple disciplines for IT and many ways in which women can succeed. But the fundamental issue for women is that very few are going into IT. WALK: By 2012, computer profession

als will be II% of the total work normation in the U.S. By 2031, we will have a 35 million-person labor shortage. In 2030. women in management and profession al occupations will be 54% of the workplace. We'll have a huge need to develop women in all professional groups.

Of everything that was said at the SIM panel, what surprised you the most? SCITES: That we were having this discussion in 2005. Fee been involved

for 30 years as a female leader, and the fact that we needed as an organization to do this just speaks volumes. The good part is it was wildly successful. so obviously, we touched a nerve.

> Do IT organizations "get" women?

WALK: No. It's still a good-old-boy network. Women have a hard time be ing heard in the technical arena. If they have ideas, they're not accepted very quickly. If they want to talk about a better way of solving a problem. they're shut down.

SHAND: One of the bir problems is they don't ask what they need to do I to attract women. If I get a call from a client and there's a crisis, but the next call is the nurse at my child's school. am I going to hop on a plane and fly to Chicago or get in the car and drive to the school? Many women would choose to go to the child. If society wants women to make that choice, how do we handle that in terms of our need to excel in our careers? That's why lots of women are opting out.

CULP: Computer science is the only profession where the numbers of women have gone down.

DALJETTI: I've worked in lots of different environments. There's this sense of surrounding yourself with people like you, and sometimes you just don't think women will be like you.

Tell me about a situation where developing women in your organization has sitively affected your career

or your company's success.

WEAVER: Ten years ago, Johnson & Johnson began a women's leadership instinctor We've had conferences develoced mentoring programs, identified key women to out on a development track. We send women to Smith College for an intensive leadership program. We have created a significant focus on women, Johnson & Johnson now has four women on its executive committee, and those women control businesses responsible for about 64% of Johnson & Johnson's total revenue

KOSTER: Our executive VP, Vivian Banta, has brought a whole program on women and finance to the company. educating women about what they need to do to work in the financial arena and also to take care of personal finances. It's working to bring more women agents into the sales force. And there's a direct impact on the bottom line when you have women agents speaking to women.

CULP: Developing women is my jnb Giving recode the flexibility to get the job done in a way they do best and not micromanaging - encouraging people to go to their kids' baseball games has paid off for me over the years in torms of commitment work othic tosults - and not just among women.

How much of women's problems in IT stem from organizations not valuing them, and how much stem have outside of work?

CULP: Our research shows that work life balance is an excuse women give when they leave so they can leave gracefully. But the reality of why they leave is the culture - the way it marringlines warmen And flexibility Even if policies exist, people don't feel they're really allowed to take advantage of them, so they don't. They think they'll be seen as less committed.

hat do IT managers need to know about women in IT?

WEAVER: That women can really beln to take IT to the next level - to

understand and translate the needs of the business into technology. Some people have tunnel vision from the technical perspective, and others have a broader perspective, and that ability will help them reach out to nontechnical people. In today's world, everyone's using technology. You have to be able to speak with business people.

CULP: I'I managers can make a point of asking a woman to talk about what she's done Call on her in a meeting if she doesn't speak up. Don't make assumptions about what she will or won't be interested in currerwise

WALK: Managers need to know that women think about solutions in a very different way. They need to listen more to the women in the organization. They will find a lot of good, creative ideas that often are not unleashed because women either are not heard or don't feel the environment is such that they will be heard, so they don't speak up

SCITES: That having women involved is good for business, period. We need diversity in our teams and groups all kinds of diversity. We all bring different things to the table, and if we can put that together, we get the strongest teams and best results.

What do IT recruiters need to know about the women they're trying to recruit? WEAVER: They need to broaden their

score in terms of the background of the IT professional they're looking for. Rather than take a narrow focus on "Which programming language have you had experience with and which systems have you installed? they should look at who's a successful proiect manager, who understands how to get things done, who's really capable of understanding what's uning to move a business forward.

If my IT organization is truly committed to hiring and retaining talented wome what should it be doing? KOSTER: It needs to have a flexible

environment and good training programs on both functional and leadership skills.

WEAVER: One thing that's been successful for us at Johnson & Johnson is to have mentoring and that ability to iden-

tity an individual who can connect with the business. Also, we've focused on developing a community of women. It's very important to have a forum for people to feel there is support and acknowledeement that things can be improved.

SHAND: Give up the concept that you know what women want, and go out there and check it out. One woman told me that when she leaves the office late at night, the parking lot is dark and wars and she's the only one there. Has this corporation considered that that's in inhibitor to this woman working late and excelling in her career? So don't think you know what women want.

CULP: You need to put women in senior positions so role models exist. You need to encourage overs mentoring and discussion among the women so they can support one another. And use technology to provide flexibility.

if I'm a woman who's truly committed to a career in IT, what should I be doing?

KORTER: First and foremost understand the business and the demands of the business. Reach out and search to get that training. Be flexible and use technology to create flexibility. When I travel, I have an international cell phone, a PC and a BlackBerry. With those three things. I can stay in touch with my organization, my business partners and my family.

WEAVER: Deliver results. Establish relationships in the business. Have that network of women and use it.

GALIETTI: I went sideways at IBM, so Leot a breadth of experience. You have to be willing to do that. Work in a place that encourages that, or leave and so someplace that does.

SCITES: Understand the financials and how IT plays into the making of money and the business processes of the company. Whatever the product or service is - however the company derives its margin - IT needs to understand the roles it plays. Know how to partner with business peers to meet their objectives. And obviously, stay current in IT.

CULP: Get out from behind your desk. network with other people; learn how to communicate your accomplishment and ambitions. And take care of other women. O 53535

Cummins Chooses Farnsley as CIO

www.comouterworld.com

GAIL FARMSLEY was named vice president and CID at Commins Inc. in Columbus, Ind. She joined the company in 1997 as an internal consultant on IT process iment and strategy development. Prior to joining Cummins. Farnsley worked for nine years in technical and manar osmons at Georgia-Pacific Corp. mmins makes and services engines and related technologies.

Machek Named CIO Of Broadhand Firm

Charter Communications Inc. in St. Louis announced the appr ment of FDWARD MACHEK as or vice president and CIO. achek most recently worked as a consultant at Source Medical ions Inc. Charter is a broad hand communications company

Drougas Moves to Hyperion From SGI

Hyperion Solutions Corp. has se-lected DEAN DROUGAS as vice president and CID. He comes to section from Sitions Graphics inc. where he served most recently as CIO. Drouges has also held senior management posi-tions at Conner Peripherals (non agate Technology LLC) and Culinet Software Inc. Santa Clara, Calif.-based Hyperion nanagement software.

Stanley Associates Taps Bither as CTO

antey Associates Inc. in Alex-dria, Va., has named DAVIO E. BITHER as its first chief technology officer. Bither has served for a year as Stanley's vice president for advanced engineering and ploey. Previously, he served in command, engineering and in the U.S. Army, retiring in 2001. Stanley delivers IT and

A Foot in the Door

VE BEEN WRITING THIS COLUMN for about a year and a half. By far, the most overwhelming response I've had was to a piece I wrote last October, called "What to Tell the Kids" [Ouick- Link 497321. In that column, I provided a frank assessment of the IT job market today, particularly for those who are in the early stages of their careers,

I heard from dozens of readers, most of whom thought my observations about the industry were spot on. Several asked for more advice on how to navigate the difficult waters of today's IT profession. The response I got to that column got me thinking about whether there was any pointed advice I could offer to IT professionals — both young and not so young.

One of the key challenges that many people expressed in their letters was the crosion of entrylevel IT jobs in corporate America. For instance, many organizations have outsourced programming. application support, desktop support and help desk. Even firms that haven't outsourced these functions are devoting fewer people to them. They're using H-IB labor for such tasks and substituting automa-

tion and self-service processes for human resources. Traditionally these entry-level jobs have been the places where new IT professionals cut their teeth. With those jobs disappearing, how can peo-

ple break into IT I can offer at least four strategies for getting a job that will put the right IT experience nn your résumé. These techniques are also useful to midcareer types who have been laid off or whose IT skills are somewhat out

1. Go to work for an IT wendor. While it may not be your ultimate career goal.



working for an FF vendor provides the kind of entrylevel IT opportunities that are evaporating from many corporations. There are a couple of angles you might pursue here. You can work for a vendor on the product development, marketing or sales side. Or you can pursue a career working for an IT services company that does development and integration work desktop support or data

center and application sup-

port, for example. The second option will better prepare you for on IT conver in an area that requires a significant amount of hands-on technical experience, such as security, networking, architecture or application development

2. Pursue a career at another data-driven company that isn't an IT vendor. There are certain types of businesses that depend heavily nn IT to succeed. These include most financial services companies, such as banks, credit companies and insurance firms. Other data-driven industries include telecommunications. credit reporting, online information

retrieval and publishing. It you restroughing to find an entry level IT job, a good but is to apply at such a company. I mentored an individual who got his big break in IT after a sum doing online customer support for a financial services company. But there's one caveat. If you go this route, make sure you have selected a community that believes in promoting from within,

3. Consider playing the compliance card. Most companies are extremely concerned - dare I say punicked? about compliance in general and the Surbanes-Oxles Act in particular, Job bunters with IT and finance backenounds can parlay their expertise to capitalize on the frenzy

One IT manager I know has kept his sob in state of an extremely volume cornorate environment because of his role in the company's compliance efforts. Even after Sarbanes-Oxles is put to bed, compliance concerns will remain, and for heavily regulated industries like life sciences, financial services and utilities, compliance issues are an ongoing reality

4. Get creative. An acquaintance of mine got a sob after observing that a company to which she applied didn't have a good system for tracking the résumés it received online. She called the president of the company and pointed out that not only was this bad business, but it also was a risk hey mucof campliance systes. Bineo - she was

That's an extreme example. I know but the point is that sometimes thinking out of the box really gets you noticed. Some other unconventional thoughts: Work for the online steration of your favorite retailer, or consider opportunities that may be available in law enforcement for individuals who know their way around a file system. Good luck! O 53394

CARFFR ADVICE

2005 Georg Planting Study Page 37

Panel

Tell me about a situation where developing women in your organization has settively affected your career

positively affected your career or your company's success.

WEANIER: Ten years ago, Johnson & Johnson began a women's leadership initiative. We've had conference, developed mentoring programs, identified key women to put on a development track. We send women to Smith College for an intensive leadership programs. We have created a significant focus on women. Johnson & Johnson to women the contractive leadership programs. We have created a significant focus on women. Johnson & Johnson women women. Johnson & Johnson Johnson & Johnson & Johnson & Johnson & Johnson Johnson & Johnson & Johnson & Johnson & Johnson Johnson & Johnso

ROSTER: Our executive VP, Vivian Banza, has brought a whole program on women and finance to the company. It's all about demystifying finance and oducating women about what they need to do to work in the financial areas and also to take care of personal finances. It's working to bring me, and the state of the state o

CULP: Developing women is my job. Giving people the flexibility to pet the job done in a way they do best and not micromanaging — encouraging people to go to their lads' baseful games — has paid off for me over the years in terms of commisments work ethic, results — and not just among women.

How much of women's problems in IT stem from organizations not valuing them, and how much stem from the responsibilities they have outside of work?

CULP: Our research shows that work, life balance is an excuse women give when they leave to they can leave gracefully. But the reality of why the leave is the culture — the way it marginalizes women. And flexibility: Even if policies exist, people don't feel hey're really allowed to take advantage of them, so they don't. They think they'll be seen as less committed.

What do IT managere need to know about women in IT?

WEAVER: That women can really help to take IT to the next level — to

understand and translate the needs of the business into technology. Some to technology. Some to technology some technical perspective, and others have a broader perspective, and that ability will help them reach out to nontechnical people. In Goody's world, everyoue's using technology, You have to be able to speak with business people.

CULP: IT managers can make a point of asking a woman to talk about what she's done. Call on ber in a meeting if she doesn't speak up. Don't make assumptions about what she will or won't be interested in currerwise.

WALK: Managers need to know that

WHALE MANAgers need to know that women think about solutions in a very different way. They need to listen more to the women in the organization. They will find a lot of good, creative ideas that often are not unleashed because women either are not heard or don't feel the environment is such that they will be heard, so they don't seek un.

SCITES: That having women involved is good for business, period. We need diversity in our teams and groups all kinds of diversity. We all bring different things to the table, and if we can put that together, we get the strongest teams and best results.

What do IT recruiters need to know about the women they're trying to recruit?

WEAMER: They need to broaden their scope in terms of the background of scope in terms of the background of the TT professional they're looking for the TT professional they're looking for Rather than take a narrow focus on "Which programming language have you had experience with and which systems have you installed?" they should look at who's a successful project manager, who understands how to get things done, who's really expelle of understanding, what's going to move a business formers."

If my IT organization is truly committed to hiring and retaining talented women, what should it be doing?

KOSTER: It needs to have a flexible environment and good training programs on both functional and leadership skills.

WEAVER: One thing that's been successful for us at Johnson & Johnson is to have mentoring and that ability to iden-

tify an individual who can connect with the business. Also, we've focused on developing a community of women. It's very important to have a forum for people to feel there is support and acknowledgement that things can be improved.

SMANDE Give up the concept that you know what womene want, and go out there and check it out. One woman told that was be leaves the office late at night, the parking lot is dark and scary and shirt kin only one there. Has this corporation considered that that's an inhibitor to this woman working late and excelling in her career? So don't think you know what womene want.

CULP: You need to put women in senior positions so role models exist. You need to encourage overt mentoring and discussion among the women so they can support one another. And use technology to provide flexibility.

If I'm a woman who's truly committed to a career in IT, what should I be doing?

WOSTPER First and foremost, understand the business and the demands of the business. Reach out and search to get that training. Be flexible and use technology to create flexibility. When I travel, I have an international cell phone, a PC and a BlackBerry. With those three things, I can stay in touch with my organization, my business partners and my family.

WEAVER: Deliver results. Establish relationships in the business. Have that network of women and use it.

CALJETTI: I went sideways at IBM, so I got a breadth of experience. You have to be willing to do that. Work in a place that encourages that, or leave and go someplace that does.

SCITES: Understand the financials and how IT plays into the making of money and the business processes of the company. Whatever the product or service is — however the company derives its margin — IT needs to understand the roles it plays. Know how to partner with business peers to meet their objectives. And obviously, stay current in IT.

CULP: Get out from behind your desk; network with other people; learn how to communicate your accomplishment and ambitions. And take care of other women. © 50055

EXEC TRACK

Cummins Chooses Farnsley as CIO BAIL FARMSLEY was ranned vice

president and CIO of Commission. Inc. Distantions, Inc. Standard, Inc. Standard the company is 1907 as an internal corenditate on IT process Improvement and strategy development. Prior is joining Commiss. Farmings worked for size years in technical and management positions at features makes and services engines and related technologies.

Machek Named CIO Of Broadhand Firm

Charter Communications Inc. in St. Louis amounced the appointment of EDMAND MACHEY as nemier vice president and CRO. Machek most recently worked as a consultant at Source Medical Solutions Inc. Charter in a breadhand communications company.

Drougas Moves to Hyperion From SGI

Hyperion Solitotius Corp. has a rerelected DEAN DROUGHS in six or president and COD. He comes to Hyperion from Sillone Graphics inc., where he served most recently as COD. Drouges has also hald sealer management positions at Connet Periphenal (new Swages Yechnology LLT) and Cultort Seltowan bu. Santa Clarat, Call. -based Hyperion makes business performance.

Stanley Associates Taps Bither as CTO

andris, Va., has nerved DMVD E.
BITHER as his first chief technology officer. Bither has served for a year as Stanley's vice president for advanced engineering and technology. Provinsely, he served in occessmel, neglenering and program management positions in the U.S. Array, relating in 2001. Stanley delivers IT and BARBARA GOMOLSKI

A Foot in the Door

YE BEEN WRITING THIS COLUMN for about a year and a half. By far, the most overwhelming response I've had was to a piece I wrote last October, called "What to Tell the Kids" [Quick-Link 49732]. In that column, I provided a frank assessment of the IT job market today, particularly for hose who are in the early stages of their careers.

I heard from dozens of readers, most of whom thought my observations about the industry were spot on. Several asked for more advice on how to navigate the difficult waters of today's IT profession. The response I got to that column got me thinking about whether there was any notined advice. I could offer to

whether there was any pointed advice I could offer to
IT professionals — both young and not so young.

One of the key chal-

One or to stay conlenger that many people expressed in their letters was the erosion of entrylevel IT jobs in corporate America. For internal properties, many organizations have many organizations have many organization share, many organization share many organization share many organization share many organization share supplication support, dealtop support and belp deak. Even firms that haven' outsourced these functions are devoting fewer people to them. They're using H-Il Balbofe for such tasks and substituting automation and self-service pro-

esses for human resources.

Traditionally, these entry-level jobs have been the places where new IT professionals cut their teeth. With those jobs disappearing, how can people break into IT?

I can offer at least four strategies for getting a job that will put the right IT experience on your résumé. These techniques are also useful to midcareer types who have been laid off or whose IT skills are somewhat out

 60 to work for an IT wander. While it may not be your ultimate career goal,



ond option will better prepare you for an IT career in an area that requires a significant amount of hands-on technical experience, such as security, networking, architecture or application development.

 Pursus a career at another data-driven empany that lan's all Feeder. There are certain types of businesses that depend heavily on IT to succeed. These include most financial services companies, such as banks, credit companies and insurance firms. Other data-driven industries include telecommunications, credit reporting, online information retrieval and publishing. If you're struggling to find an entry-level IT job, a good bet is to apply at such a company. I mentored an individual who got his big break in IT after a stint doing online customer support for a financial services company. But there's one cawest! If you go this route, make sure you have selected a company that believes in promoting from within.

3. Consider playing the occuplance card.
Most companies are extremely concerned — dare I say panicked? about compliance in general and the Sarbanes-Oxley Act in particular. Job hunters with IT and finance backgrounds can parlay their expertise to capitalize on the frenzy.

One IT manager I know has kept his job in spite of an extremely volatile job in spite of an extremely volatile job in the company's compilance efforts. Even after Sarbuner-Oxley is put to bed, compilance concerns will remain, and for heavily regulated industries like life sciences, flauncial services and utilities, compliance issues are an ongoing reality.

4. Out emails. An acquaintance of mine got a job after observing that a company to which she applied didn't have a good system for tracking the resumes it received online. She called the president of the company and pointed out that not only was this bad business, but it also was a risk because of compliance issues. Bingo — she was

That's an extreme example, I know, but the point is that sometimes thinking out of the box really gets you noticed. Some other unconventional thoughts: Work for the online iteration of your favorite retailer, or consider opportunities that may be available in law enforcement for individuals who know their way around a file system. Good lux16 955554

CAREER ABVICE

or more tips about managing your career, so 1905 Career Planning Guids, **Page 37** 00 01 W08000 (\$25 N/14)

COMPUTERWORLD

KNOWLEDGE CENTER CAREERS

04.18.05

2005 Planning **GUIDE**

A handbook to help IT workers plan their next moves, at three career stages.

Y own career plan is called "stumbling found" i just wall through career doors that, through pare lock, happen to open at the right time. It worked No. for me, but it won't work in the challenging world of IT, where up-to-duce upon the control of the control of

from outsourcing is a constant threat. You need a real plan. So Computerworld is offering its first guide for IT professionals at different phases of their careers. We took this approach because the challengers and strategies are very different depending on whether you're just getting started in IT, stalled out

at midcareer or moving toward semiretirement. In this special report, you'll also get Johanna Rothman's step-by-step plan for taking charge of your IT career, plus tips on how to avoid common employee blunders.

Twe been collecting career tips myself over the years, and here are a few of my favorites: If you want to get promoted, do the things that people one level up tend to do. Be better prepared at meet-

ings than anyone else.

Never, ever wear a Hawaiian shirt at a business function.

O 53534

Mitch Betts is Computerworld's executive editor. You can contuct him at mitch_betts@







HH WADE is close to retirement age but choses no signs of cutting back his bears.



workforce, he has witnessed several years of dramatic changes in the IT field. Tight budgets, outsourcing, off shoring, globalization and corporate mergers mean young technologists must work harder than ever to land their first jobs. "Competition is global, and it's not a

matter of 'I know the technology, and therefore I'm an ideal candidate," says Alexia Benedict, executive director of Rezamaze.com LLC in Rochelle Park. N.I. lob candidates from all over the world often compete for the same positions, while offshoring and outsourcing are putting some IT positions miles

away from corporate of fices. Companies today have their pick of people *Candidates really need to learn how to set themselves apart," Benedict adds. "And I think everyone has something

that sets them apart. It's just a matter of uncovering it." Kearns, who's pursuing a master's

degree in IT at Bentley while looking for a job, says his work experience makes him stand out from other recent grads. He highlights his high school internship with a tech company, his college job at a pharmaceutical company and his overseas experience working at the Dublin office of Fidelity Invest-

Tech workers who have business experience are in the highest demand today, experts say. And those who can demonstrate that they understand how technology advances a company's business strategy leave the best impression.

Head for Business

Scot Klimke, CIO at Network Appliance Inc. in Sunnyvale, Calif., says he looks for candidates with internships or project experience where they used technology to solve business problems He also looks for candidates with dual degrees, such as studies in computer

science and business. "It's about having a strong résumé

that reflects having very strong experi-Klimke oversees about 160 full-time

IT staffers as well as another 200 or so contractors. He has been adding 15 to 18 new employees every quarter. Klimke hires recent college grads following the winter and spring commencements, and he puts them through a yearlong apprenticeship that

exposes them to several IT areas, such as data center management and sys-

New to IT? Here's what it takes to land a job. By Mary K. Pratt

TEVE KEARNS WOR'T settle for any old job, even in this tight market. "It's more important for me to find a job that would be a good fit in the long term than to just get a job,"

Kearns' determination goes aga the long-held philosophy of taking anything just to get a foot in the door. But if that notion was once true, IT leaders and career experts recom-mend aminst it now. Rather, they say take the approach of job hunters like

Kearns: Research companies, target particular positions, and contact po-tentially helpful people. Keerns graduated in Janu a bachelor's degree in computer information systems from Bentley College in Waltham, Mass, Like of

Overall, though, Klimke says candier new entrants into the high-tech

ekelle.

dates who are switching to TT from another career sometimes have an advantage because they already have that real-world work experience under their belts. Candidates coming from finance or marketing backgrounds are particularly desirable — as long as they've acquired the necessary tech

Tech people, though, often don't have that business know-how.

"There's a tendency for people to focus on being just technicians," says Kurt Hahlbeck, partner in charge of business development and growth at Wipfli LLP, a consulting firm in

Wagana, Wis.

That means most new entrants to the T field need to be realistic and start at the bottom. Entry-level positions are start at the position. Entry-level positions are start at the position. Entry-level positions and desknop support analyst to software engineer and protect manager and T regiment to protect manager and T resultants. Safaries range from about \$45,000 for belog desk and technique \$45,000 for belog desk and technique to the start and the safaries range from about \$45,000 for below the safaries range from a \$45,000 for below the safaries range from a \$45,000 for programmers and \$45,000 for programmers and \$45,000 for programmers and \$45,000 for programmers.

Don't Settle

But even as the economy improves, finding those entry-level positions remains a challengs, says Seven Roshberg president of CollegeRecruitercom, a Minneapolis-based career site. For their part, candidates still need to be thoughful about their choices. job or no job for on extended period of time, it's better to find a job, 'he says-'But I think too many people settle. They're willing to be hired by the wrong company for the wrong work.

Tips

Even in this economy, landing the perfect IT position can be more than a pipe dream, experts say, as long as candidates work hard on their job searches and follow important or defined the theory.

Research companies and positions to ensure the right for you, says Samon D. Sept. founder of University and Curser Decisions, a conser management them withoutpoin. Then there are served to the positions and the positions of the positions with the positions of the positions

reach out to employers. They need to register at career sites and their college career offices. More important, they need to network. That means talking to everyone they know, calling everyone their parents know and contacting the people they recommend. "It candidates tend to be introverts, so it's much more difficult for them to

network. But they've got to learn," says Rothberg.

Gurl Pederson, vice provost and GIO of Orogon State Unitereity and the Oregon Dailversity System, says he knows firsthand the importance of networking. He's 58 and has never applied to job. Bit half-down professional posts have come about because he was recommended by people be know. "The ones who succeed are the ones who build relationships, work on

teams, provide good service," be says.
"The failures don't come because of

■ Don't rely too heavily on ordine searching. Tary Laward Willers, prosdented Be-Mag, worlder with an unemployed programmer who repeatedly appled ordine for a position first was perfect for her. Alary gripm, on supposes, the called the company and fearmed that officials there had been unable to pull information of the private detables in their metation of the private detables in their metation of their private detables in their

hind within weeks of his call.

Wikespinoles when networking, so you can update contexts about your job seem hand career, says Stoven Rottborg, president of CollegeRecruter.com, "because it's lifely in a few years you'll be

lack of technical skills. They come because of lack of personal skills."

cause of lack of personal skills."
Pederson has a staff of 200 professionals supplemented by 200 student workers. Newcomers start as IT consultants, providing deaktop, LAN and application support. Entry-level workers seem to like the title and the corresponding duties because they have responsibility and variety. Pederson says.

Drive and Desire

Good networking skills might get you an interview, but that doesn't guarantee an offer. Candidates still must demonstrate why they're the best person for the job.

son tor the you.

Jerry Bartlett, vice president of application development at Ameritzade
Holding Corp. in Omaha, says he looks
for candidates with a well-rounded education, practical experience and a
business-related background. He also
wants to see an inquisitive attitude.

"What we're looking for is a desire to understand the bigger picture," Bartlett says, adding that be looks for those who demonstrate initiative, a strong intellect and a healthy curiosity. "Anyone can develop what it takes to move ahead if they're willing to be in-

"Anyone can develop what it takes to move ahead if they're willing to be intruspective — truly introspective — to consider what they bring to the table and how they can contribute and if they then have the commitment to make changes there if necessary," be

Bartlett says be hired a developer who had less than a year's experience — and even pald for his relocation from North Carolina — because company officials were so impressed with his tech skills, business savvy and "his enthusiasm to be at Ameritande." "He has become such a leader," Rarriett adds.

Although that worker is a standout. Bartlett says he tries to have about 20% of his 400-person IT group in the junior ranks. Newcomers also participate in a mentoring program during their first year. "Our commitment is to ensure their success." he says. New entrants also need to consider

New entrants also need to consider what paths they want to take as they advance, industry experts advise. Looking broadly, they can either advance to high-level technologist positions or move into IT management. Regardless of the career path, tech executives, career coaches and recruiters agree that individuals must continually improve themselves if they

"It is paramount that all candidates take responsibility for their futures," Benedict says. Get involved, ask questions, volunteer for projects. And put your own time and money into additional training "to be ever on the bleeding edge of what's out there."

want to advance.

Martha Rogers built her blossoming. IT career entirely by her own initiative. Rogers has a bachelor's degree in psychology and a master's of education degree in counseling. Buy she picked up Web design as a hobby. She took an HTML class eight years ago, read a lot of technology soks and

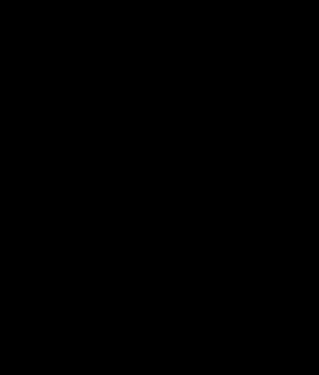
joined technology-oriented groups. That's why, after a decade working in social services, she easily moved into her current job as IT coordinator at PACE lac., a nosperofic community action program in New Bedford, Mass., And Rogers hasn't stopped learning beet susdying for A certification from the Comparing Technology Industry. Association, and she planned to untend Technology Enterprise Network. Attitudes like the, experts say will

keep toch workers employed for years.
"You can't be lazy if you want to be in IT. You can't be done with school if you want to be in IT!" says Tracy. Lazwell Williams, president of Arvada. Colo-based Bir-Magic Inc., which operates the Career-Magic.com Web site. "You need to be seen as versatile and willings to do servining." Of 55025

Pratt is a Computerworld contributing writer in Waltham, Mass. You can contact her at marykpratt@verison.net.

ADVACE FOR IT HEWINES

aigned to help you get a foot in the



Feeli people, though, often don't have that business know how There's a tendency for people to

focus on being just techniques," says Kurt Hahlbeck; partner in charge of business development and growth at Wiefli LLP, a consulting firm in Wansau, Wis.

That means most new entrants to the IT field need to be realistic and start at the bottom. Entry-level positions today range from help desk speculist and deckton support analyst to software enemoer and programmer. and from IT associate and network en gincer to project manager and IT consultant. Salaries range from about \$45,000 for hele desk and technical support specialists to about \$52,000 for network administrators and \$64,000 for programmer analysts.

Don't Settle

But even as the evenums improves. finding those entry-level positions reberg president of CollegeRecruiter-.com, a Minneapolis-based career site. For their part, candidates still need to

be thoughtful about their choices. "If it's a choice between finding a iob or no iob for an extended period of time, it's better to find a job," he says. But I think too many people sertle. They're willing to be hired by the wrong company for the wrong work."

Even in this economy, landing the perfect IT position can be more than a pipe dream, experts say, as long as candidates work hard on their rob searches and follow important outdelines like these

Research companies and positions to ensure the right fit for you was Susan D Strayer, founder of University and Dater Decreons, a carrer manage. ment lirmin Washington Then talor your sésume each time you apply highlighting what smost applicable

Rothbore says jub sockers need to reach out to employers. They need to register at career sites and their collose career offices. More important they need to network. That means talking to everyone they know, calling

exercine their parents know and comtacting the people they recommend "IT candidates tend to be introverts. so it's much more difficult for them to network. But they've got to learn," says Rothberg. Curt Pederson, vice provost and CIO of Oregon State University and the

Oregon University System, says be knows firsthand the importance of networking: He's 58 and has never applied for job. His half-dozen professiona posts have come about because he was recommended by people he knows "The ones who succeed are the ones who build relationships, work no

teams, provide good service," he says. "The failures don't come because of

. Don't rely too heavily on online searching how Laws of Without Line

enterBir Mags, acrividantum icco

hind within accks of the call

Keep notes when networking. president of College Recountry Long Tercause it's likely maltry years you libe-

March Pratt

lack of technical skills. They come be cause of tack of personal skills. Dederson has a staft of 200 profes sionals supplemented by 200 student workers. Newcomers start as IT consultants, providing desktop, I AN and application support. Entry-level work ers seem to like the tale and the corresponding duties because they have responsibility and variety. Pederson says

Drive and Desire

Good networking skills mucht get you an interview, but that doesn't puarantee an offer. Candidates still must demonstrate why they're the best person for the job.

lerry Bartlett, vice president of application development at Ameritade Holding Corp. in Omaha, says he looks for candidates with a well-rounded edocation, practical experience and a business related background. He also wants to see an inquisitive attitude.

"What we're looking for is a desire to understand the bugger picture." Bartlett says, adding that he looks for those who demonstrate initiative a strong intellect and a healthy curiosity

"Anyone can develop what it takes to move ahead if they're willing to be introspective - truly introspective - to consider what they bring to the table and how they can contribute and if their them have the commitment to make changes there if necessary," he

Bartlett says he hired a developer who had less than a year's experience - and even paid for his relocation from North Carolina - because com rany officials were so impressed with his tech skills, business savvy and "his enthusiasm to be at Ameritrade." "He has become such a leader,"

Bartlett adds

Although this is seen a year and and site their success, be site.

advised industry coperts advise Looking broadly, they can either advance to high level technologist positions or move into 11 management Regardless of the career path, tech

enuters agree that individuals must continually outroug themselves if they want to advance It is paramount that all candidates

take responsibility for their bitures." tuons, volunteer for projects. And put your own time and money into additional training To be ever on the bleeding edge of what's out there." shesons

II career entirely by her own instative. Robers has a buchelor's degree in psychology and a master's of education degree in counseling. But she liked working with technology and picked up Web design as a hobby. She took an ITIMI class eight years ago,

That's why, after a decade working in social services, she couly moved into her current job as IT coordinator as PACE Inc., a nenprofit community action program in New Bedford, Mass. And Rosers hasn't stopped learning She's studying for A+ certification from

the Comparine Technology Industry the March conference of the Nonprofit Technology Enterprise Network Attitudes like that, experts say, will keep toch workers employed for years.

"You can't be larve if you want to be if you want to be in IT' says Tracy Loswell Williams, president of Arvada Colo-based Biz-Magic Inc., which operates the Career-Magic.com Web sate. "You need to be seen as versatile and willing to do anything." O 53025

Prart is a Computerworld contributing writer in Waltham, Mass. You can contact her at marykpratt is verizoes.net.

ADVICE FOR IT NEWBIES Visit our Web site for dozens of test from career expens



IKE OTHER IT MANAGERS Sean Jameson is at a turning int in his career. He knows that he has to take the right steps to get to the next level - whether that means an internal promotion or a position with another organization.
"I think the closer you get to the

boardroom, the more you have to unrstand about business units," says lameson, chief information technology officer at New York University's chool of Continuing and Profe Studies. He says he has been able to rise through the ranks in IT over the past 12 years largely on the strength

of his technical skills. But at the midpoint in his IT career, meson is forcing himself to be conserably more business-focused. He talks frequently to managers in business units throughout the university to better understand the

challenges they face in their departments and develop IT strategies aimed at beloing them meet their goals. He's also thinking

about pursuing an MBA - which would be free if he enrolls at NYU - to help him build on his business skills and advance his career should be decide to move into more of a corporate setting at some point. "It's a tough decision," he says. Many other IT managers and techni-cians who have spent 10 to 20 years

working in IT also find themselves facing difficult choices as they try to carve out new opportunities "Keeping your skills up to date is robably the biggest challenge that

oth technicians and IT managers face at this point in their careers," says Arnold Testa, CIO at Electric Power Research Institute Inc. (EPRI), an independent, nonprofit center for elec tricity and em nental research in Palo Alto, Calif.

Testa's advice to IT workers at midcareer who are seeking advancement Show that you're excited about your work, demonstrate a willingness to be trained in new technologies or business skills, "and grow the technical dership you've attained in the first

idcareer It's time to re-energize your career with fresh skills.
By Thomas Hoffman

You can't be waiting for your boss to present you with opportunities - you have to be the No. 1 advocate for yourself.

MARIA SCHAFER ANALYST GARTNER INC

nurt of your career," he says. That could include transitioning from being a reliable technician to being an IT project manager, says Testa, who oversees a 50-person IT staff.

Stuck in Neutral

But many technical workers are unwilling to learn new skills, and that's a big stumbling block for them if they want to move their careers forward much less survive - in today's globally competitive labor market, says Martin Bean, chief operations officer at New Horizons Computer Learning Center Inc. in Anaheim, Calif.

"We can't think about job security. We have to think about career security and keep developing ourselves and moving ahead," advises Bean.

"People who are at the midpoint in their careers need to have more crosstraining in different technologies and skill sets, both to attract themselves to other employers and to protect themselves against downsizing," adds Rick Stockfield, CEO of Talenthire.com, an Atlanta-based job-placement service. But some IT professionals, like Alan Mastin, an IT project leader at Colomer USA, a Jacksonville, Fla.-based haircare product maker, work for companies with razor-thin training budgets and thus have limited educational

nortunities. Mastin, a 24-year IT veteran who spends most of his time developing Cobol programs, works in a 15-person IT shop where there are few opportunities for advancement and very little turnover, "Somebody has to die before a position becomes open," he says Mastin and his co-workers face other challenges, Colomer is transition to an SAP enterprise resource planni

system over the next year, and the IT staffers have been told they will he retrained as business analysts. "I'll give it a shot and see what it's like," says Mastin, 53.

Some IT professionals who do have access to technical training say they simply don't have the time to take classes. For instance, Philadelphia-based Quaker Valley Foods Inc. moved in January from a 63,000-square-foot facility to a building that's four times bigger. The eight-month effort, which included installing telecommunications equipment and wiring, turned out to he very time-consuming, says Leo Romero, a network administrator

"It's a massive job when you're just a three-person department," he says. IT workers at midcourse face oth obstacles as they look to the future. Most technicians are uncomfortable

about sharing their career plans with their supervisors, but it's critical for them to do so, says Nextel Commu cations Inc. CIO Dick Lefave. "It's important for people to take the

time out to lay out what they want to do and where they want to go," he says. Their supervisors can then help to plot a path and determine the skills they'll need to acquire to get there. Lefave

"You have to realize that you can't be waiting for your boss to present you with opportunities - you have to he the No. I advocate for yourself," says Maria Schafer, an analyst at Gartner Inc. "Managers are too busy with too many direct reports to devote that time to you."

Look First, Leap Later Some IT managers, such as Todd Larson, director of application development at Boston-based Eaton Vance Corp., are torn about their career

ement options. "If I want to attain CIO status, I would probabl have to leave this company, and I don't want to have to do that - and my boss doesn't want me to either," he says. It's a difficult position that many

dcareer IT workers find themselves in. One of the mistakes people should avoid is taking a job at another company if you think you've gone as far as you can with your existing employer says EPRI's Testa. "I think the mistake

is to leap before you look."

Larson, a 15-year IT profess lieves that external forces such as glob alization will have the greatest impact on his career choices. "We're following a strategy today of not using offshore labor. But we might not have a choice someday — it might become too cost-

effective," he says. One way to stay a step ahead of outsourcing is to demonstrate a willingness to learn new skills in order to remain marketable, says Schafer. That might mean abandoning a purely technical job and stepping into more of a customer-facing role, she adds.

It's also important for technicisms and IT managers alike at midcareer to ize their weaknesses and broaden their skills, says Lefave. Last year he attended a three-month advanced management program at Harvard University, paid for by his company, to belp him expand his strategic and financial know-how.

"It exposed me to a variety of executives from different companies, not just IT executives, but CFOs and COOs," says Lefave. Such programs "help balance your acumen as a busi-ness person." O 53560

IDCOURSE JUMP-START

see from too career experts can boost your

Pittfalls

ar com complemency. Here ev-me fresh tips for giving your ce or a jump-start and avoiding the intains that could densil you.

a Tell your boss what your coreer goals are - before sharing them with a beachunter. And if you don't re a mentor, get one now,

es/ve become en export in a Nic discipline, such as notes gement, chances are you've no so volusitie to senior man-ent that they're not inclined to she you, Push to broaden your nce by, say, becoming part of a oject learn outside of your domain.

Continue to demonstrate excellence and communicate your value.

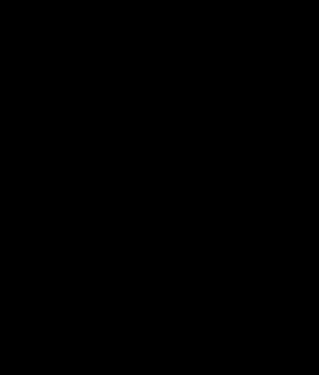
Talk to business managers in your organization regularly to stay in tune with their needs. And volun-

teer for new assignments to show your interest in tackling the latest chal-

 Watch the people who are directly above you on the career indder if they don't have your best intentions in mind, they might use you as a spring board to further elevate thermselves.

 Take advantage of any educational opportunities available to you, including training classes, technical seri iness courses at two- and four year schools

- And finally, don't jump ship set for



You can't be waiting for your boss to present you with opportunities - you have to be the No. 1 advocate for yourself.

MARIA SCHAFFR

Stuck in Neutral

"We can't think about job security We have no think about career security and keep developing ourselves and People who are in the undpoint in

their careers need to have more crosstransing in different nechnologies and other employers and to protect them. selves against documenting "adds Rock Stockfield, CFO of Talenthireasons an

II workers at midcourse face other Most technic tatis are uncomfortable

- Talk to business managers in your organization regularly to stay in tune with their needs. And color

Watch the people who are directly above you on the career ladder. in mind, they meth use you as a spring

Take advantage of any education al opportunities available to you.

And finally, tromported section the See of Changing of

you can with your existing employer

Eye on Business Even though Michael Barrane ... ter's degree at Besten Co

pred to scauge toget there. Let ou

by Walting for Your boss to present you In. "Managers are too busy with too

Look First, Leap Later

ment at Boston-Passed Faton Vanor advancement options. 'It I want to want to have to do that and my bossdoesn't want me to either," he says his a deficult resistant that many midiatee: [] workers find themselves in One of the mistakes people should my if you think you've gone as far as

says EPR? - Testa - Uthruk the mustake

resistrom datherent complete

14 to Patrices O 53583

IDCOURSE JUMP-START

Ourcht on 53054

Pitfalls

At midcareer, your biogest caree challenge might be overcoming your own complacency. Here are some fresh tips for giving your ca reer a jump-start and avoiding the mistakes that could derail you. . Tell your boss what your career

goals are - before sharing them with a headbunter, And 4 you ook t « If you've become an expert in a

specific discipline, such as network nanagement, chances are you've become so valuable to senior man agement that they're not inclined to comple you. But to broaden your groved team outside of your domain



No slacking off in career building for the 60-and-older crowd. By Mary Brandel T 63, JOHN WAOZ is working | gentle into their well-earned respite.

harder than he has ever worked in his career or in his 12 years as CIO at Saint Luke's Health System in Kansas City, Mo. If it's right and he's toiling at his home poter, he's more likely catching up on the latest in electronic patient record technology than booking a retirement cruise.

Wade plans to retire in two or three years, at which point he might resurrect Wade & Associates, a consulting firm he started before coming to Saint Luke's. But that seems a distant goal now,

when he's working "enormous hours" supporting Saint Luke's Malcolm Baldrige National Quality Award offorts, acting as CIO and serving on the board of the Health Information and Management Systems Society (HIMSS).

Wade isn't the only one among his eers who is within retirement range but still burning the midnight oil. For a range of reasons - from a passion for the initiatives that technology can support, to concern about remaining techpology-proficient and industry-savvy. to simply wanting to remain employed - many IT near-retirees often doo't go

"Never did I think I'd work this hard at age 63." Wade says, noting that when he first started in IT, eight years was the typical technology-refresh cycle. Today, it's three to six months. "You have to keep up, and you don't do that between 8 a.m. and 7 p.m. - you're doing it at 12 at night," he says.

Anyone who has survived the ups and downs of a long career in IT knows there's no such thing as resting on your urels in this industry. and the preretirement years are no different. growing," says Tom De-

Marco, a consultant at Cutter Consortium in Arlington, Mass. "As we learned from the 1990s and again in the downturn in 2004, corporations have no particular loyalty, even to people oo the brink of retirement.

"If I were an employee in that stag of my career, I'd want to learn and get certified" in growing technologies such as IZEF and .Net. DeMarco says. "The key to end-of-career planning is to not treat it like the end of your career."

Pioneer Retirees

ticularly interesting for people in IT is the lack of role models. "We're really only now getting the first substantial tirement age," points out Paul Glen, a Computerworld columnist and presi-

generation of IT workers coming to redent of C2 Consulting in Los Appeles Glen says one trend for people approaching the last 10 years of their IT careers is to work part time or go into consulting or contracting. To do this, Glen says, they first need to figure out what sort of value they want to add to an organizatioo - be it technical, ma iremen

Second, the groundwork must be laid. "You need to determine what approach you want to take. If you want to get known publicly, you need to write some articles or a book or speak for some Project Management Institute events "Glen says.

William McQuiston, CIO at Truman Medical Centers Inc. in Kansas City. Mo., smiles at the idea of scaling back in his preretirement years. In two and a half years, when he reaches 62, he pictures himself golfing and "drowni worms off a fishing pole" after a 43-year stint in IT. But even though he plans in the next month or so to shift into a role as internal adviser to the CEO while also grooming his successor, he still

doesn't know if "less hectic" is possible. For the remainder of his time at Truman, McQuiston will manage a couple of CEO-driven projects that call for strong leadership and the ability to work across organizational boundaries. While not IT projects per se, accomplishing those goals will involve smart cards. Web self-service, contact man agement, call center technology and other "technology gizmos," McQuiston points out. So is this less hectic? "This stuff continues to change at breakneck speed - there's no escaping that," he says. So while preretirement may not mean less intensity for McQuiston, it will afford him a new view. "It's a change in what I do day to day, and that has a lot of appeal," he says.

Bright Future

Not all near-retirees in IT have fishing on their minds in fact, many plan to contime working on a project or consulting basis after they retire. And the market looks good for this crowd. "We're failing to attract our share of young people in the IT industry," says De-Marco, adding that in some comp the regrape age for IT workers is 50, "If you'd like to stay employed or do coning after 65, that's likely to happen."

It's important, though, to do the necessary networking while you're still ploved full time. For instance, Wade isn't positive that he'll consult after retiring, but being active with the HIMSS certainly won't hurt if he does.

Even if you just want to stay active in technology, perhaps on a volunteer ba-

Pitfalls

ment are breaking new ground as the first generation of tech retires for the score

prizing that you're at a new stage of your career. "What me ou successful in the cast may not in the future and mey actually be a determent. says C2 Consulting's Paul Glen. For instance, if you were renowned as a good project manager, it's a mistake to repro-

duce what you did on previous projects. ther than plan new projects differently - Being "retired in place." If your retirement date is coming up, it might be tempting to slow down or have too strong a sense of entitlement. "If you're backing off, it will be noticed right away," says

sis, it's smart to look into possibilities while you're still employed, says Harriet Wasserman, associate dean and director of IT services at Seattle Central Community College. *A common pitfall is for people to not think about what they're going to do next," she says. "They say, Tm going to write a book, consult, play with my grandkids. But you need things that are more concrete than that." After 22 years at the college, Wasser

man plans to retire in two years and says she knows "I don't want to sit at home and knit." Consulting is one option, but Wasserman is also considerunity technology efforts. She has served for four years on the city of that would say, This person is 62 or 63.

William McQuiston, CIO at Trumon Med-ical Centers, "Unless there's been a salary adjustment, there's no legitimate reason to do that

· Always a coach; never the coach As you get older, if becomes important to coach people, but it's also emportant to accept some coaching as well," says Cutter Consortium consultant Tom DeMarco. People are more comfortable accepting councel if they feel you will also accept it

· Moving into certain career tracks. If you're not a meneger and are late in your career, project management is not agreat career choice, DeMarco savs, "Nobody's coins to invest in yours with a your per worker "he says. If you're still a technical worker at the age of 50 save DeMarco. there's no reason to switch to a manageral job, since most companies reward

technes as well as managers.

Seattle's board to advise its IT department on things like school computer labs and community technology centers. "It sounded cool, but I didn't know from afar how it worked. It was good to he right in the middle of it," she says Particularly for people who are high

up in the food chain or who have worked many years at one compar succession planning is a hig concern. And as McQuiston and Wade have found, the handoff and grooming peri-

od can help with the transition into etirement mode. But therein lie plenty of cautionary tales. There are a lot of organizations and he's been grooming the next gay for six months - we could save a big salary if we let that ClO go now," Wade says. But he notes that he's not concerned about that happening at Saint Luke's, given its leadership's ethical commitment. Some advise against loudly announce

ing your retirement plans. "You don't want to telegraph that you're mentally somewhere in between," Glen says. And there are plenty of other pot-

holes to avoid at this stage. "People in the last third of their career can become inflexible about issues and harden their stances about things," says John Challenger, president of Challenger, Grey & Christmas Inc., an outplacement consulting firm in Chicago, "They may fail to change as pew regimes come in, or not grow with the technology."

These pitfalls are especially acute because the repercussions of making a mistake are buge. After all, there's no ducking the presence of age bias - an emotionally and politically charged subject, but one that near-retirees

readily mention. "IT as an industry is still very focused on the young," Glen says. And Wade surees that "it's not as easy to get a lob at the age of 50 as at the age of 30." He recalls arriving for a job interview at a small printing company in Burlington. Mass, 13 years ago and hearing from the president of the firm, " 'Oh, hi, John you sound so much younger on the phone.' I knew right then, I didn't have a shot in hell at getting the job," he says.

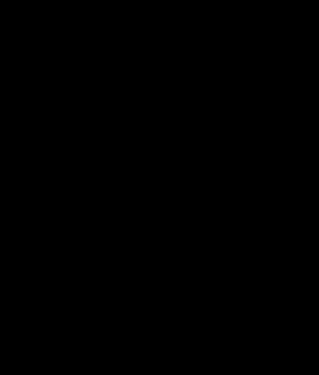
The experience seems near-universal. "People tend to think you're dead," Wasserman says, "You talk about som cool new thing like voice over IP, and people say out of the blue, 'So, when are you going to retire?" However, Wasserman plans to take training courses in C# a new administration. system and NetWare 6.5. "You have to embrace and love change, and if you don't, you're in the wrong field," she

says. "But there are people who don't expect you to do that." Which is why an awful lot of nearretirees won't be found in a rocking chair anytime soon. "I'll work to my last day," McQuiston says. "I want to give them my full measure - plus i will make the time go faster." O 53030

Brandel is a Computerworld contribut ing writer in Grand Rapids, Mich. Contact her at mary brandel@comcast.net.

TIPS FOR WEAR AFTINETS

perts to halo you plan



agenal or advisory. If see a lot of ClOs, who so into the consulting ranks with ing disaster recovery strategies or being couches to other ClOs, the says. From among lower-level managers. Glen nees a burgeoning field of ET management couches "They're saying. Two been there, and I'd rather help others than deet this again," The Sys. Second, the groundwork most be last "Own need to be a second t

Second, the groundwork must be laid. You need to determine what appreach you want to take. If you want to get known publicly, you need to write some articles or a book or speak for some Project Management Institute events." Glen sixes.

William McQuiston, CIO at Truman McGucarters Inte in Kamas City, McGucarters Inte in Kamas City, McGucarters Inte in Garage Beek in his perceiterment years. In two and a half years, when he reaches 62, he pictures himself polifier, and 3 trawn mig owns off a fishing pole: after a 4-byear state in IT. But even though he plans in the next month or so to shift into a role as internal advisor to the CFO while also grooming his successor, he still

doesn't know if "less hectic" is possible For the remainder of his time at Truman. McQuiston will manage a couple of CEO-driven projects that call for strong leadership and the ability to work across organizational boundaries While not IT projects per se, accomplishing those goals will involve smart carde Web self-carries contact management, call center technology and other "technology gizmos," McQuiston points out. So is this less heetic? 'This stuff continues to change at breakneck speed - there's no escaping that," he says. So while preretirement may not mean less intensity for McQuiston, it will offered him a new view. "It's a change in what I do day to day, and that has a lot of appeal," he says.

Bright Future

Not all near-retirees in IT have fishing on their minds in fact, many plan to continue working on a project in consulting basis after they retire. And the marfect leads good for this crowd. "We're failing to attract our share of young people, on the IT industry," sixts De-Marco, adding that in some companies, the average age for IT worker is \$0.000 for young leading to the property of the containing after fits that Sikely the Jappen."

It's important, though, to do the necessary networking while you're still employed full time. For instance. Wide on't positive that he'll consult after retiring, but being active with the HIMSS certainly won't hart if he does.

HIMSS certainly won't hart if he does. Even if you just want to stay active in technology, perhaps on a volunteer ba-

Pitfalls

IT prefessionals planning for retire ment are breaking new ground as

ment are breaking new ground as the first generation of tech retirees. Career experts identify some of the petfalls for the preretirement crowd.

 Not recognizing that you're at a new stage of your career. What made you successful in the past may not in the lature and may actually be a detirined? says C2 Consulting's Paul Glen For instance if you were recovered as a good project markage; if it a metable to repen.

duce what you did on previous projects taffer than plan new projects differently.

- Being Treffred in place." If your rebrement state is coming an it might be templing to slow down or have too shong a surse all net literation."

off it will be rotoed opti away "says sis, it's smart to look into possibilities while you're still employed, says Harrier Wasserman, associate dean and director of FF services at Seattle Central Community College. "A common pitfall is for people to not blink about what they it

going to do next." she says: "They say.
"I'm going to write a book, consult, play
with my grandkids: But you need things
that are more concrete than that."

After 22 years at the college, Wasserman plans to retire in two years and
says-she knows." I don't want to sit at

man plans to retire in two years and says she knows "I don't want to sit at home and knit." Consulting is one optron, but Wasserman is also considering community technology efforts. She has served for four years on the city of

William M. Queton CIO at Truman Mod cal Centres "Unives there sibern a subay adustment there is no legitimate reason to no that

Always a coach, never the coached.
 As you get ofter it becomes important to coach people, but its also important to accept some coaching as well. Says Outlier Denocrium consultant Tem DeMarcii.
 People are more condictable accepting councel of the feel you will also accept in

Moving into certain career tracks.
 Byou're not a monage and are later or you career projectim-nagement oned usered career choice.
 De Marco says.
 Nebody sognet or Nebody sognet or vest in you as with a younger sooker.
 The says.
 Byou're still attective all sooker at the age of 50 says.
 De Marco there is no management of the re-in or in consideration.

93

Scattle's board to advise its IT department on things like school computer labs and commanty technology centers. It sounded cool, but I didn't know from afar how it worked, it was good to be right in the middle of it," she says.

be right in the middle of it," she says. Particularly for people who are high up in the food chain or who have worked many years at one company, succession planning is a big concern. And as McQuiston and Wade have found, the handoff and grossming period can help with the transition into

postretirement mode.

But therein lie plenty of cautionary tales. "There are a lot of organizations that would say. This person is 62 nr td.

and he's been grooming the next gars for so worths— we could see a big share it would be not beginned to work the properties of the proper

holes to avoid at this stage. Teople in the last hard of their a river on become influeshed about souss and haden their stances about things." says John Chalkenger, president of Challenger, Christias Inc., an outplacement consulting firm on the loays. They may be studied to change as new regimes come us or not grow with the technology. These putfalls are especially acute.

because the reper rissions of making a mistake are high. After all, there s inducking the presence of age base—an emotionally and politically charged subject, but one that near retires readily mention.

The acan moderaty is still very for the control of the page of Still in any And Wade agrees that "it's not a copy to get a job at the age of Still is at the age of Still fee recalls arriving for a job inters set at a small printing company in Barlington. Mass, It years agas and herring from the president of the firm. "Oh, his John you wound so much younger on the phone." I knew right then, I didn't have a shot in held at extreme the John "I was set."

sal: "People tend to think you're dead;" Wisserman says: "Wot talk about seem cool new thing like vision over IP, and people say out of the blue. So, when are you going to retire?" However, Wasserman plans to talk training courses in CB a new administration system and NewMare 6.5 "Now have to embrace and lowe change, and if you don't, you're in the wrong field," says. "But there are people who don't request materials."

The experience seems near-univer-

expect you to do that."

Which is why an awful lot of nearretrees won't be found in a rocking
chair anytume soon. "I'll work to my
last day." McQuiston says. "I want to
give them my full measure — plus it
will make the time go fuster." © \$3030.

Brandel is a Computerworld contributing writer in Grand Rapids, Mich Contact her at mare brandel a comeast net

TIPS FOR NEAR-RETUREES
Ready to scale back dual not retric completely? No.
pagers of tips from career excerts to hery you pain

Oucklink 53055



JOHANNA ROTHMAN

Getting Ahead

WAS TALKING TO A RELATIVELY young developer the other day, and I asked him about his career plans. "Oh, I don't do career planning myself." he said. "I wait until

my manager falks to me."

Ops. While it's true that some managers are interested in and want to coach you through your career planning, in wexperience, even the few managers who know how to help employees plan their careers don't always take the time to do so. Face it. Your career is your responsibility. Here's how to start planning it right.

Your technical skills can be organized into four buckets: functional skills, domain expertise, toolstechnology and industry expertise.

technology and industry expertise.

Functional skills are the skills you learned in school
or have learned from books. How to develop design,
test, write, manage, schodule — all of those are functional skills. Domain expertise comes in
von flavors; problem-space and solutionspace. Problem-space domain expertise is
how quickly and how well you understand

how quickly and how well you understand the problems your product is trying to solve. Solution-space as how well you understand the internals of the product how well the product solves the problem. Tools and technology expertise includes

all the languages, operating systems and other tools you know. Tools and technology expertise is the easiest to acquire. Industry expertise is how well you know the industry you're in.

Of these four areas of rechnical skill, your breadth in functional skills and your ability to acquire in-depth domain expertise are the two most valuable. It's easy for people to learn about new tools and technology, but it's how they apply their functional skills to the technology that predicts success

tional statis to the technology may presure success. It's easy for people to learn about an industry, but it's how they use their industry knowledge to develop, test or manage a product than matters. Focus on functional skills sarly. At the beginning of my

Feous on hunchroad shifts early. At the beginning of my technical career, I focused on my functional skills thousand to be a better designer, debugger, unit tester, coder, overall software developer. When I transitioned into testing, I refocused on my functional testing skills how to be a better setter. When I moved into management, I again refocused on my functional skills this time in management how to give feedback, how to cock, how to ghan. Early in your career (and anytime

you change roles), say, for the first five to 10 years you learn new functional skills and new tools and technology.

horsio domin supertino militarune. Once you've been working 10 to 12 years 164 certical to continue learning about how to adapt your functional skills to new dominion and tools beforehoody; Otherwise, you become like somewne! met recently who said she was a "Cobol programmer". She hould't learned any other functional skills, such as design skills. Inapuages or anything other than Cobol. First one only that you short-thange yourself when you don't learn more functional skills or new domains you also decrease your value to vour current.

fand futurels employer.
You might worder why Pee used 10 to 12 years as an introduction to midcareer. The most valuable people ament afraid no tangen roles, I don't men that people should change roles every year—that doesn't help them learn the functional skills or product in depth best as an example, working as a developer, moving into a technical deal role, moving both to the change roles and roles are the people working on the state of the role of the rol

ble in any position you take.
Revisit functional stills when you change roles. If you change roles in an organization

roles. If you change roles in an organizatio — such as moving from development to testing, from testing to project management or from management to architect plan to update your functional skills for

your new role

If you've been a technical lead and you're
moving to an architecture position, you'll
want to learn or reinforce new techniques
to allow you to develop ideas and design
more effectively alone and with others.

When I realized I was interested in learning more than just technical functional skills. I started working on my project management and people management functional skills so that I could be successful in those arms. It deeped management

ful in those areas. It doesn't matter which functional skills you start to improve once you've been working for a while; it only matters that you decide you're ready to expand your skills in another dimension.

Remember the nontochnical skills. No matter where you are in your career, remember to pay attention to skills like writing, presentation, negotiation and influence skills to name just a few. They are helpful no matter where you are in your care.

Don't wait for your manager to plan your career.

Wherever you are in your work experience, take some time to sketch out your future. The more you learn, the less of a commodity you are to your employer—and the more valuable you are. (*) 58783

These common career missleps can be avoided. Here's what experts say you should watch out for as you navigate through your career.

OEORGIA ADAMSON, founder, A Successful Career/Adept Business Services, Campbell, Calf. Tunnel vision - in other words restricting you business relatoriships primarily to

ing your basiness eitherschips primarily to colleagues in your licchnology carrier niche. As an III professional you should actively develop his with nontrichnical people as well as with your peos. You stand to benefit - and really can't lose by progderming your distolet.

■ Living in the past, You absolutely must present yourself to employers as having up to date skills and a sestful enthusasm for cutting-edge technology. If you haven't brushed up your knowledge recently, think senously about bining specialized classes in key areas of interest.

ALICE SHELL, vice president, itegos Research Inc., San Francisco Blanketing your resume out there just because you can and sitting back to see what happens rather than engaging with

Hiding your assets. The IT world has become more project-based, so not providing details of your project experience on a resume can make a long term postion look stagmant to a potential employer

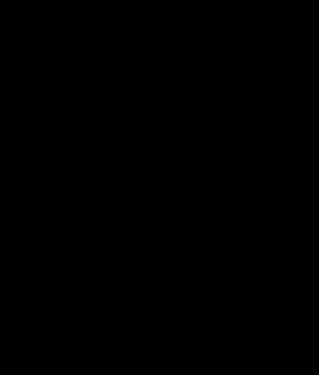
KATHERINE SPENCER LEE, executive director, Robert Half Technology, Menis Park, Calil. *Forgetting about "soft" skills. While chilar inchmural abidines messen proper-

tive, the demand for professionals with effective communication sales and strong however of business fundamentals is increasing. When considering professional development opportunities, don't overlook chances to improve your business winting, public speaking and other soft sales.

■ Not taking risks. Not applying for ajob because you lear rejection is a far worse late than submitting and sumé and being shot down. Calculated risk taking is a hallmark of success. ◆ 53344.3



Find other common career densities, and tips if awarding them on our Web site.



CAREER ADVICE

These common career releatings can be avoided. Here's what experts say you should watch out for as you navigate through your career.

A Secondal ADAMSON, founder.
A Secondard Convery/Adept Business Services, Campbell, Calif.
W Yassel vision – In other words, mointaing your business relationships privaryly collections your behaviory corner riche. As an IT protessional, you should achievly develop be swith participated people as well as with your perso. You

stand to benefit - and really can't lose by broadening your cuticols.

**E. Living in the past, You shouldly must present yourself to employers as having up-to-date shifts and a seaful enfluencem for cutting-edge technology. If you haven't broahed up your browledge recently, think seriously about taking specialized classes in low areas of interest.

ALICE SMELL, vice provident, Loges Research Inc., See Francisco — Bizarboting your releases out there just because you can and orting back to see what happeer safer than emparing with commones frameth their career contails.

Hidding your assets. The IT world his become more project-based, so not providing details of your project expensions on a risuant can make a long-term position look stagnant to a potential employer

KATHERINE SPENCER LEE, essentive director, Robert Half Technology, Mento Park, Calff. of Forgatting about "soft" skills. While stellar inclivical abilities remain impera-

effective communication skills and strong knowledge of business fundamentals is increasing. When considering professional development apportunities, don't overbook chances to improve your business writing, public appealing and other soft skills.

What tabling risks. Not applying for a job because you feer rejection is a far worse fate then submitting a resume and being shot down. Calculated risk-taking is a hallmark of success. © 53343

Find other common career decisions, and too is avoiding them, on our Web site: JOHANNA ROTHMAN

Getting Ahead

was talking to a relatively young developer the other day, and I asked him about his career plans. "Oh, I don't do career planning myself," he said. "I wait until

my manager talks to me."

Oops, While it's true that some managers are interested in and want to coach
you through your career planning, in my
experience, even the few managers who
know how to help employees plan their
careers don't always take the time to do
so. Face it. Your career is your responsibility. Here's how to start planning it right.
Vour technical affaire nab e oppanied use for your

technology and industry expertise. Functional stills are the skills you learned in school or have learned from books. How to develop, design, test, write, manager, schodule — all of those are functional skills. Domain expertise connects in two flavors problem-space and solutionspace. Problem-space domain expertise in how quickly and how well you understand the problems your product is trying to

solve. Solution-space is how well you understand the internals of the product how well the product solves the problem. Tools and technology expertite includes all the languages, operating systems and other tools you know. Tools and technology expertise is the easiest to acquire. Industry

expertise is how well you know the industry of these four areas of technical skill, your breadth in functional skill and your skilling to acquire in-depth domain expertise are the two most valuable. It's easy for people to learn about new tools and technology, but it's how they apply their functional skills to the technology that predicts success. It's easy for people to learn about an industry, but it's It's easy for people to learn about an industry, but it's

how they use their industry knowledge to develop, test or manage a product that matters.
Feaso as hundread skills sarely, At the beginning of my setchical career, focused on my functional skills how to be a better designer, debugger, unit tester, coder, overall notivater developer. When I transitioned into senting, I refocused on my functional testing skills how to be a better sterim. When I monthly a skills have been to be a peter sterim. When I monthly a skills have been to be a better sterim. When I monthly the skills, that time in management: how to give forefloach, low to coach, how to plan. Early in your career (and anythins

 you change roles), say, for the first five to 10 years, you learn new functional skills and new tools and technology.

because we will be a service and the area. Once you've been working to be 12 years, it critical to continue learning working to be 12 years, it critical to continue learning to the service and took the properties of the service of

constants, you asso decreases your vasue to the your current, dam furmor comployer. And furmor comployer. The most valuable people arent affails to Anage roles. I don't mean that people should change roles are year—that doesn't help them learn the functional skills or product in depth. But as an example, working as a developer, moving into a technical and role, moving book to a development role, moving into a project management role, moving on to a different development role.

moving on to a different development role — all of those changes can make you more valuable and capable in any position you take. Rayinit inactional shifts when you change

rules. If you change roles in an organization
— such as moving from development to
testing, from testing to project management or from management to architect—
plan to update your functional skills for
your new role.

If you've been a technical lead and you're moving to an architecture position, you'll want to learn or reinforce new techniques to allow you to develop ideas and design more effectively alone and with others. When I realized I was interested in

learning more than just technical functional addits, started working on my project management and people management functional skills so that I could be successful in those areas. It doesn't matter which functional skills you start to improve once you've been working for a while; it only matters that you decide you're ready to expand your skills in an

other amension.

Remember the nontechnical sidle. No matter where you are in your career, reasember to pay attention to skills like writing, presentation, negotiation and influence skills, to name just a few. They are helpful no matter where you are in your career.

Wherever you are in your unexes.

Wherever you are in your work experience, take some time to sketch out your future. The more you learn, the less of a commodity you are to your employer—and the more valuable you are.

\$\infty\$ \$\infty\$



Just say no to inferior service

Insist on a CompTIA
Authorized Service Center (85)

Have the right people at the right time for the right solutions.

Know CompTIA certified technicians are right there.

To find an ASC or ASC Gold near you,
or to become one warrant! Valit asc corroris and/or

CompTIA.

The Computing Technology Industry Association, a not-for-prof

Reach Respected IT Leaders in

COMPUTERW DRLD Marketplace Advertising Section

The Computerworld Manuelplace advertising section reaches more than

1.8 million IT decision reakers every week. Marketplace advertising helps

Computerworld readers compare prices, search for the best values, locate new suppliers and find new products and syrues for their IT needs.

To advertise, cell 212-655-5157

IT Careers: Diversity Profiles Provide Advice

represent big business and entrepreneurs. Both women say learning lessons, beyond technology, is

Cronin says her lessons began with parents who stressed lifelong learning. "Next are the multiple managers through my career at IBM the one who took a risk and gave me my first management opportunity when I was eight months pregnant, the site general manager that invested in me as his technical assistant. They taught me to think broadly as well as strategically. My third influence has been women, inside and outside of

IBM, who have demonstrated balance between work and family." Both women are forces in the IT world. Cronin, listed as one of the 50 most influential Hispanics in engineering and technology, is 20-year IBM veteran. She's

20-year IBM veteran. See 3 responsible for a budget of \$1.8 billion to provide the solutions behind IBM's global services business. She's been at the lead of critical technology projects, heading a team of 12,000 consultants who helped clients plan, design and implement e-business solutions and heading

Part Romero Cronin, vice president of IBM's global sechnology integration for the 2000 Summer Olympic Roberts, founder and CEO of Future Skies Inc., entrants, measure performance, and post results.

Roberts' company, Future Skies, is a software contractor for the Department of Defense. She was one of three people who had

been architecting the Army's baseline systems while at other companies. When she launched Future Skies, that expertise landed her the first contract. In the past three years, her company has developed eight core applications for the Army including time synchronization, automated position reports, battlefield messaging to identify lendly and enemy units, inefields, bridges, forward lines, and the software supporting the military's digital address book.

For Cronin, the top three things to mber are to believe in

yourself and not be afraid to take yourself and not be afraid to take tough assignments and risk, to esk tough assignments and risk, to esk than what's expected. She also believes she has responsibilities for the profession. to be a visible leader in the Hispanic community, to toster an "it can be done" attitude among Hispanics. "Hispanics to the largest corporations in the country. We own

point out the benefit of being rassed by a Guatemalan point out the better to being lasted by a Galacenseim mother and El Salvadorian father in a household where Spanish was spoken and family-first priorities instilled. "In the business world, this has become a tremendous asset, especially in large multinational companies where it takes many people and groups to achieve business goals."

Roberts focuses on leadership, too. "I learned that employees really are valued assets," she says. "You have to make sure you reward them for their hard work." While there are personal payoffs, Roberts believes the resulting environment wins customers, too. She also has learned that as a small business owner and a woman, "I've had to build the business by being completely on top of things. You can't just be smart; you have to be smarter and quicker on your feet. That approach has earned me a reputation as someone my customers want to work with

As with Cronin, Roberts believes personal growth is an ongoing necessity. "Many IT folks think the most important thing they can do is know the latest technologies, read every book and be ahead of things. It took me a long time to realize that it's not just what you know, but also how you interact with people around you, how you manage your life, identifying where there are holes and how you fill them. We are here to grow."

For more information about IT Careers advertising please call: 800.762.2977

> Featured Editorials IT Careers offers you information on the most relevant career management topics relative to IT recruitment. Here's what's coming up next. May 2: Information Security May 16: IT Careers in Bio Tech Be sure to take advantage of this

Produced by Carole R. Hedden

IT careers

Visit no at www.itcareers.com

Computerworld - InfoWorld - April 18, 2005

Ads Placed

Weekly

Didn't find the

IT Career Opportunity

you were looking for?

rebey Inc. (Rosework, E.). o global systems steppitty proof ing solutions to financial sar secte special stagging con-cern charms. In seeling ac-ces industries, in seeling ac-minister. Manageris of PSAD and Lead Comutations of PSAD on the Comutations of PSAD of the Comutations of PSAD of the Comutations of PSAD of the consideration of PSAD of the Comutations of PSAD of the Control PSAD of the Comutation of the Comutation of the Comutation of the Control PSAD of the Comutation of the Comutation of the Comutation of the Control PSAD of the Comutation of

ISS Manager Deed daily oper sons of deat, analyze son-one Develop comp last securian, provide data secur-nd commit, systepic computing, nd disagler recovery. Know-

note SCK, Ti,1 SNAMP SMET. ATM & Frame Restry or M.S. in Comp. Science o rgg or 8:S in Comp. Science Engg +5 yes of any

all resume III. Amendo Glannos. Operation anaper Chembach Ltd 1948 symbold Dr. Northbreek III. 8502 or E-mail regennos@chembach.com

Online

Recruitment

Opportunities

Job Posting Factages Resumo Database Single Job Proting

prated print &

Check back weekly for

fresh job listings

placed by top companies

looking for skilled

IT professionals like your

recareers 800-762-2977

Programme Analysis (1994) Then, develop a list and discharge of program only the program of computer of program of computer of program of computer of program of computer of c

ject MS in applied mathematics. 4 jrs. Exp. in ETI, took, tellor-matics. Fower-Center, 16-2x. 4. 7 ls; Sentor DSP Engineer Design, covering and leaf of Design cereate and leaf of specia enhancement products. For Mindows XP CC based majble reviews MS vis Et plus 1 or exp or pix Sewar MSMS. Empirer Diversity MSMS sour-risk components. Areabys de-legal services and television Sept Sex and MSMS CV residentees and areabys. PTR or extra plus components and the pix of the Mindows and the Mindows and the Mindows and Mindows Mindows

Scheme Exposer Brassman course of membrane support and membrane support and su

Software Engineer wanted by Navarrina, LLC (Plittchurgh, FA) to develop Java Code (JSP) Sharam, Classenii, Wind SQL (AAS) SQL, Transact SQL PL , SQL) to access MS SQL Server 7 d p. Creace M SQL Server 7 d p. Creace b Mon MIL or 85 with middled appearant. Contact programment for cells. (South-fact, MR is looking for program-ment years analysis. Qualified conditions are three members of the conditions of the 2-2. One other E.C. Gire. Samos: Spinner (S.A.S.), Sinc. Garner, Spinner (S.A.S.), Sinc. Sinc. Garner (S.A.S.), Sinc. Sinc. Garner, Spinner, Sinc. Sinc. Garner, Spinner, Sinc. Sinc. Garner, Spinner, Spin

Ellis. Glin conSchwart Engineer Design,
overlop, snelpes seer requireservotte, snelpes seer requireseer, stelpes seer requireseer, stelpes seer requireseer, stelles ASP net with CR
stelles ASP net ASP
stelles ASP

Corpus, Inc. Inp. multiple open-rogs for IT professionals to closing and develop applications, using Credit. Self. SCL. PL SCL. CORP. SCI. Inc. SCL. CORP. SCI. Inc. SCL. CORP. ASP NIT XII, Man-Malifel on any Travel maple required. Please and nature required. Please and nature

femony products for Continuence products for Continuence (Clink Long scale understanding of Windows and UNIX (Solares) operang annountment acute on Janua Janua Apples, January (Sol. Yusun Baser, Tohin Land Sol. Yusun Ba ere products for Custome toraction Management (Clief January Banc, Tipher SCL, Vesus Banc, Tipher SCL, Vesus Banc, Tipher COM/OLE/Actival, Roser-Builder DOE FlastO and HTML. Develop and delive customated and user instruction and consultative sensions to customate and consultative sensions to customate and consultative sensions to customate processing to materials.

chert merhops and party management, to deliver this roum benefits and productively unitioner implement and dispit envices that include creati-advantation excells for proper apport designing custom an apport acknown and utilize Windows compensers across windows compensers across relegation boundows. Program-mants. Bachator Degree in Computer Sownon. Computer Engineering or closely-visited field (or equivalent) and three (2) pears: experience in job othered or three (3) years separance in software solutions consuling or the commence of the consuling or the commence of the consuling or the commence of the commence monatrated expertise devel-ing software products in indicate and LPRX (Setund) Windows and UNIX Season operating environments using Java Java Applen, Java Serpting JOBC 0080/50, Visual Bank, TOMP CO OXE-Mothol, and Frewelfactor demonstrated expenses creating demonstrated expenses creating

chances seed organization seems, and submittable seeds for project submittable seeds for project VESLOGI, and MTML comp-ment; demonstrate desputies systemic qualities relaxable to the WESLOGI part and large, and seed to the seeds of the seeds of the SEED OF S distribution scripts for grap

Project Consultant needed in Golden to metalf & config-ure Softbrand's products & tools and VisiBar Workflow Server, remote barcode de rices ValWatch Even er & Demenstitres ain customers, prove sales, on-eite & remo oport Approx 60% tweel volved Resume to stillnesses Mg., Attr. J. ler, 2 Meridian Cross

cyreams Analysts to work as consultants at client sites in the U.S and abroad implet, customize and upgrade Oracle SEP share page. Requ. BAHS in Comp Sol. Engl., Bus. Logistos. HS. or related fact + 2 ym sap. w/Oracle Apps or DE's.

and resumes, rats, an

my rac's to After HIR, IT

Delabase Architect: IT cor-ulting comp for its clien storwide seeks databa ing & data archi ture in VLDB erviron through analysis of but data & processes; des. der, impt. & reeng of clien Dus/scerw tive & data warehouses. level resume to: HR. lescurce Logistics, Inc., 69 Emater Road, Suite

Business Systems Analyst Manugistics Planning

Disabeth Anders the loss name in pressure counteries and Righten's workloade has an excessing hall note reports mer-board sail of our Standard ET office. Reportung to the Chercher of EE Apple states, was well

Levelaging won knowledge of Manageous Solivace you will upotoe with Supply Chain transprieries to establish and deliver their system and information The waterwitzl cambelate should person a 85 degree or The intervals compage origins process a 85 degree of Compage Noverce flowness or related helds and 5-sean of relevant expenses c. Visa must be lamillar with ERP Systems and have in depth experience or

or systems and rave in organ expension or languageite. Networks Fulfillment and Elemand Planning Strong printerporced communications and powers must en global commer goods organization required We often a compension comprisation puckage and the among growth opportunities you would expect from a alcohal bassers, leader. Crobs amongs with a cover better

penatron will be reviewed for consideration. Please critical tensions in: Catamotiff Control blades com. DFM: FCE-64. Elizabeth Arden

Progett Managor (Chando, Fr.) Searching toqual progetting to the p indowers Systems inc hee job openings for the following sensor levell passitions to work at claims also throughout the US two Arthred Lead to lead Java Arthred Lead to lead or performer, despuritement of casedae time-press that hap-prications, surinate budgets, tree lines & plan for resources for seascher rejusting softween & fortherer reportments. 1981 and professional professional Public COVAD Lab. 244, 228, Java 209 F.E. 304, Julies GUYVeb Interfaces \$796, POSMIT or Unit & ret-domn platform. Software Segreer (Chronic, E.) Seshvology correspond E.) Seshvology correspond seeds software professional to devoice and senses professional to devoice and session on the session of the session of the session professional session seeds of the session se

Create CISA to lead in parliaming data anables, data moduler, data moduler, di data moduler, di database designi in scrisione Cristopres Cata Manufesses en versionesse, filipit in Erani. Crearment State Warmington on-warmentage, Month in Ersen. Oracle Changeur, Chacte Stiff. 15g. DW Tecn. OLTP SEA Tecn. OEM. RAC. OWIL 17. SOIL PL/SOIL Shall on Line S Warming additions. SAF ERF Land to common con-siste SAF ERF analysis design contraction are delinques from a SAF REL ANALYS LINE. Restorat EAF CREE EER No. Restorat EAF CREE EER No. Restorat EAF CREE EER No. Restorat EAF CREE EER No.

Charle Agginister Leef to per-turn seatest Oracle Enterprise Agginisation amongs, disease, Agginisation amongs, disease, the control of the control period of the control of the lag Adaptic for Charle Servi-gine Agginisation implementa-tion for excess missians, which is Jose both over territories tool for excess of the PLPACO Charles Selfin (PLPACO) Charles Selfin (PLPACOO) Charles Selfin (PLPACOO) Charles Selfin (PLPACOO) Charles S

How to Contact COMPUTERWORLD

We invite readers to call or write with their comments and ideas. It is best to submit ideas to one of the department editors and the appropriate beat reporter.

Doe Tennant, editor in chef (508) 626-774 Minh Betts, secolar editor (30) 262-843 Julia King, secolar editor, events

John King,
Income refer events
(50°) 532 7599

REPARTMENT
ENTONS
As after 500 100 100 100 100

the Stables, sentent from other (000,000-000) and (000,000-000) an

Court Stein, Michael Link.
TED Link Feller.
See Ted Link Link.
TED Link Feller.
See Ted Link Link.
TED Link Feller.
See Ted Link Link.
See Ted Link.
See Ted

Prior South, Not development compar. Lock Surine, Mark Survey, Vol. Southern BESEASCH

COPY MENT

BHAPBIC DENIHI Suphada Fasahar, appropriate April ("Capata", appropriate Julia Salan, sonor insepto

ADMINISTRATIVE SUPPORT

CHITMINITION EXITOR

CONTRIBUTION COLUMNISTS

Middle Security, See Silver, Parl St.
Barbers Security, Devotes A. Way.

CONTRIBUTION WRITERS May front, New Laber, Recol Eq. GENERAL INFORMATION

TRACTICAL PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS O

C-MAIL Or Walders b

For Dill House Strates convergence of the Control o

Table 100.1 Specified

personal of Tables, and the Control of Contr

CONTRACTOR DESIGNATION OF THE PARTY OF THE P

COMPANIES IN THIS ISSU

100 Miles

500 ED 628

See A Committee of the Committee of the

STATE OF THE PROPERTY OF THE P

Committee of project of the committee of project of the committee of the c

expected, but the Tampa, Flahased maker of food-handling equipment for supermarkets has had virtually no interaction with Siebel over the past 18 mooths, Hahmann said. "Everyone that I knew

seems to have left the compamy," he said. "Not one person has contacted me except for the annual (maintenance contract) renewal. Pretty sad." Lawrie was bired last May to replace company founder Thomas Siebel as CEO because of his credentials as an IBM executive, said Ian lacobs. an analyst at Current Analysis Inc. in Sterling, Va. Siebel's board felt that Lawrie's IBM pedierre would show users and investors "that stability was the word."

Jacobs ooted. But Siebel is still losing ground in the CRM market he said, adding that the company's sales problems are partly the result of increasingly strong competitioo from rivals such as Salesforce. com Inc. and SAP

AG. Jacobs also cited

Siebel's continuing lack of suc-

Dehra Domeyer, chief tech-

cess in marketing its software

to small and midsize users.

nology officer at CarsDirect com Inc., an online automobile retailer that uses Siebel's call center and sales applications. praised the direction OUT

that the veodor had taken under Lawrie as part of his "Chapter 7" strateury. "Siebel has born

on the right track with their increased customer focus over the last year, and we hope they continue that emphasis," Domeyer said But I warrie was

probably living "on borrowed time," despite the fact that he had yet to reach his one-year anniversary at Siebel, said

Upheaval at Siebel

OCTOBER: Lawne de J Michael Lawre is talls "Chapter 2" strate gy for revitalizing Sebel: nany Inventor Thomas company tops (13 earn

Sebel acquires a 7% increase in ings forecast. Q4 revenue

A DECEMBER · APRIL: The company Siebel announces a warns of a O1 revenue

. JULY: The CRM vendor moorts a 10% drap in rev stratery by myreas shortfall, replaces Lawing sales to small and rie with board member SCHOOL AREA CARD, AREA to m midson users George Shaheen

> said the IT manager, who asked not to be named. He added that he will be watching to see whether the first-quarter revenue shortfall affects Siebel's technical supnort and software-release

schedule O 53797 FRANKI Y SPFAKINA

Sebel's problems make the case that CRM as we know it doesn't work and needs to be remverted, says Frank Hoyes. Page 50

Shaheen Mostly Mum on Plans

I last week, new Siebel CEO orge Shaheen said that one of is priorities will be helping the conv's installed base of M investments. But he of red few specifics about his ans, saying he first needs to aduate Sinber's

a 1905 coidle

ce, at least for velop its CRM and n the use of its h

utives "are not running this comany for short-term results." And Thomas Siebel said the arture of Lawrie ween't ed by any disagreeme agy. "This is all about

one That's the only isrus," he said, adding that the company's earnings over the past few quest

> er to know much about the white stability at the

uns to be tu moll every year," said the user so works at a provider of call ter services and asked not to

on Day One to say what that is," reenbaum said. From 1989 to 1999, Shah was CEO of Anderson Consult ing, which is now Accenture Ltd. te left the firm to run Webvan

Group Inc., an online grocery the dot-com bust. wer-based Tierl Inno LLC, a software services com-pany that focuses on Sabel deents, worked at Andersen process, musting during Shall

een Thas more e ence than anybody I can think of in terms of executing on a pion. Johnston said. "Lawrie may ha set the tone for what Siebei Chapter 2 is going to look like, but in the last nine months, I real dn't eeen anything in the

s market position, said gh and they're really not

re enough." arc L. Songini, with Stacy

around. Market Forces

Siebel as CEO.

Richard Napier, business de-

velopment manager at inFact

Group, The Plano, Texas-based

consulting firm and systems in-

tegrator uses Siebel's CRM On-

Demand bosted applications

related work for its costomers

ness growth was one that I re-

spected, and I'm disappointed

that it didn't come to fruition."

Napier said. He added that he

took the appointment of Shabeen, a longtime member of

Siebel's board, as a sign that

the company's directors don't

view its plight as a situation

that requires a complete turn-

Lawrie's "approach to busi-

internally and does Siebel-

But Siebel hit a big pothole in the first quarter. Two weeks are, the company warned that its revenue would total about \$300 million, well below Wall Street forecasts of \$337.5 million. Software license fees are expected to come in at about \$25 million, down more than 40% from \$126.8 million in last year's first quarter.

An IT manager at a financial firm that runs Siebel's software said the vendor's ongoing problems are indicative of a realistment in the CRM market, "With SAP and Sales force.com eating away at Siebel's market share, the next CEO is going to have to have

some dynamic new ideas on how to revive the business."

Pendod unique part el Parampion, Mais, sed otro martin, officia, finant unitor Canadas formacione Nazionio, possible, martin, and a single contract and to the last to invair a Observable for Compartment (i.e., 1) James State, State State, State The state of the s



59609-67

.090:330:744

(100 S00 1033)

How to Contact COMPUTERWORLD

We invite readers to call or write with their comments and ideas. It is best to submit ideas to one of the department editors and the appropriate beat reporter.

Den Termant, editor in direl (566 500 7714 Mines Betts, excurber editor (301 552 5043) Julia Kilne, excurber editor, exemple (501) 520 7599

REPARTICENT
ENTORY

Long Redeat, Name offer

COS 100-100

Res Busines, comment have offer

COS 100-100

Long Publishes, comment have offer

COS 100-100

Long Publishes, comment have offer

COS 100-100

Long COS 100

Long COS 1

BEFFEETES

Mail Manifes, removing redelparation, ordered removement and removal processing and removal processing

Lacco Mouries, strongs deader recovery and bearest contrasty françai serveso retoriy Card Stine, Windows, Linux. 650 instancesty. Mars L. Benglid, ISPP supely than CRM stackases booked agribations. Partial Tibleshow, interprise spains, Unic retempring and emispasion, artifacts south. Julianest Williams., organise southly forces south

Additional Williams, organis sector process resident process and p

Dary St. Anthon, salveni zavosponderi

 July Niley, whose correspondent
 (NR) 502 769

 COMPUTERWORLE.COM
 Selection Community

 Barrian Commun, we predestigenest stranger.
 500 800 900

 Selection Community
 500 800 900

 Selection Community
 500 800 900

 Rest Blanks, writer new caller
 500 800 866

 Selection Community
 500 800 900

Borld Bornd, event reconstruction other at large (500-920-929)
John S. Britton, account at denote: (500-920-929)
Borld Borngh, account at denote: (500-920-929)

Jacobs Remin, prior Returnitude Puter Saleth, Wet development mention Kerke Berkelt, Merk Savery, Wild developm RESEARCH

Mark Korla, visual brancapi Ocean Wheel, reports associate

COPY DERR - DePlayer, newspapeletts (military (500) 872-976

RRAPRIC RESIDER

obs Foundary, design description (2006 NOV 8006

Agel ErCannery, records and device

July Splains, service designer

Sames Callell, synchro-postphalia

July Ellimanery, callenger

July Ellimanery, callenger

ADMIRISTRATIVE SRPPORT

CORTERUTIRE CRITOR

CORTESBUTIER COLRECTETS
Michael Ourbacker, Das Sillner, Fact Ster
Sarkers Describe, Charation A. May,
David Mandada, Sart Parkins
CORTESBUTIER WRITERR

SENERAL INFORMATION

TELEPHONE/FAX

this place metaler ... (SSS) EFP-07

office union otherine rated below

tals for comber ... (SSS) SFS-07

be here come to line ... (SSS) SFS-07

be here come to line ... (SSS) SFS-07

E-MAIL. Our Web authors to communication and fallows the feet fault manders; o mail fallows the feet and faulteness the manufacture and fallows

LETTERS TO THE ENTIRE LABORS IN the address on volcens and should be sent in latter throughter world some, include your account and biophone number of the contract of the con

MAIL ADDRESS Disc OFFL 1 Speed Street, Franklighers, Main, OFFSL

SUBSCRIPTIONS/SACK ISSUE Subscripton rater U.S. 505 SNyear, Canal SUCY/year, Canada and South Associa, SUCY/ all offices, SUCY/ Plants (SSE) SNO-71 E-mail (SSE) SNO-71 E-mail (SSE) SNO-71

Content Dans Suit
Phone (707) 300-5000, est. 97E-mol reprinted computer world one
Val were reprinted assess in obtain queter

COMPANIES IN THIS ISSUE

| March | Marc

Controlled To Management Controlled To Managem

Section 2 - Sectio

...

Marie Marie



Sebel acquees

Edocs inc. reports

a 7% november in

Continued from page I Siebel

expected, but the Tampa, Fla.

based maker of food-bandling equipment for supermarkets has had virtually no interaction with Siebel over the past 18 months. Hahmann said "Everyone that I knew seems to have left the compa-

ny," he said. "Not one person has contacted me except for the annual (maintenance contract] renewal. Pretty sad." Lawrie was hired last May to replace company founder Thomas Sighel at CEO heacause of his credentials as an IBM executive, said Ian Jacobs, an analyst at Current Analysis Inc. in Sterling, Va. Siebel's board felt that Lawrie's IBM pedigree would show users was the word." OUT

But Siebel is still losing ground in the CRM market, he said, adding that the company's sales problems are partly the result of increasingly strong compe-

tition from rivals such as Salesforce. com Inc. and SAP AG. Jacobs also cited Siebel's continuing lack of success in marketing its software to small and midsize users. Debra Domeyer, chief technology officer at CarsDirect. com Inc. an online automobile retailer that uses Stebel's call center and sales applications.

praised the direction taken under Lawrie as part of his "Chanter 2" strategy Sichel has been on the right track

hope they continue that emphasis," Domever said.

customer focus over the last year, and we But Lawrie was probably living "on borrowed

time," despite the fact that he had yet to reach his one-year anniversary at Siebel, said

Upheaval at Siebel · MAY: IBM executive

Seebel as CEO

... HHY-The CRM

vendor reports a

10% drop in rev-

Richard Napier, business de-

velopment manager at InFact

Group. The Plano, Texas-based

consulting firm and systems integrator uses Siebel's CRM On-

related work for its customers.

Lawrie's "approach to busi-

spected, and I'm disappointed

Napier said. He added that he

took the appointment of Sha-

heen, a longtime member of

Siebel's board, as a sien that

view its plight as a situation

the company's directors don't

that requires a complete turn-

Demand hosted applications

internally and does Siebel-

■ OCTOSER: Lawne de tals "Chapter 2" strate-J Michael Lawre is named to replace com pary founder Thymas

OECEMBER

midsize users.

Sebel announces a

strateny lor increas

cty for revitalizano Sebeti company logs Q3 nam-

mas forecard

· APRIL: The company warrs of a Q1 revenue shortfall replaces Lawno sales to small and ne with board member George Shaheen

> said the IT manager, who He added that he will be first-quarter revenue shortfall affects Siebel's technical support and software-release schedule. O 53797

FRANKLY SPEAKING

Sebel's problems make the case that ORM an we know it doesn't work and needs to be receiveded, says Frank Haves, Page 50

ner or hast week's M

Shaheen Mostly Mum on Plans

call last week, new Siebel CEO George Shaheen said that one of his priorities will be helping the company's installed base of users make the most of their CRM investments. But he offered few specifics about his

plans, saying he lirst needs to evaluate Sebel's onerstions Shaheen, who has been a member

of Siebel's board since 1995, said he will keep the current in place, at least for

now. He added that Siebel will continue to develop its CRM ana-Mics technology and try to roaden the use of its hosted ap plications. He expects to decide more details of his strategy on April 27, when Siebel is schedu to record its first-quarter securits.

Both Shaheen and Thomas Subel, the company's chairm sought to assuage users' lears shout continued instability by nising that the app of Shaheen wesn't just an inter as mared three Controller man

utives "are not running this com party for short-term results. And Thomas Sinhel said the

departure of Lawrie wasn't prompted by any disagreements on strategy. "This is all about performance. That's the only issue," he said, adding that the company's earnings over the past few quarters This is hadn't met interall about One Sebel

performance. mer said she ween't comforte by such com-CHARMAN, SIEBEL SYSTEMS ments because Shaheen didn't

annear to know much about the dor. These questions about leadership stability at the company. There seems to be turevery year," said the user who works at a provider of call center services and asked not to

affect. But Joshua Greenbaum, an raivot at Enterprise Applications Consulting in Berkeley. Calif., said it's understandable nen was reticent ab divulging specific plans. There's on Day One to say what that is." Greenbaum said.

From 1989 to 1999, Shaheen was CEO of Anderson Consulting which is now According I to He left the firm to run Webvan Group Inc. an online omcerv

venture that went believe during the dot-combust. Mark Johnston, president of Derwer-based Tierl Innovation LLC, a software services company that focuses on Siebel deormants, worked at Anderson Consultant derion Shaheen's torure there.

onen Thus more exper ence than anybody I can think of in terms of executing on a plan. Johnston said. "Lawre may have set the tone for what Sebel softer 2 is going to look like. but in the last nine months. I molly hadn't seen anything in the way of execution."
However, Sinbel is caught in a

wous market position, said ster Asserth Inc. analysi nice Teterrene sortice ns are about either being big And right now, Seebel isn't big ough and they're really not

tive enough." - Marc L. Songint, with Stacy Cowley of the IDG Hews Service

Market Forces

But Siebel hit a big pothole in the first quarter. Two weeks ago, the company warned that its revenue would total about \$300 million, well below Wall Street forecasts of \$337.5 mil-Non Software Rosense feet are expected to come in at about \$75 million, down more than 40% from \$126.8 million in last year's first quarter.

An IT manager at a finan cial firm that runs Siebel's software said the vendor's ongoing problems are indicative of a realignment in the CRM market. "With SAP and Salesforce.com eating away at Siebel's market share, the next CEO is going to have to have some dynamic new ideas on how to revive the business."

TRANK HAYES • TRANKIY SPERKING

Death of a Salesman

S THIS THE END FOR CRM AS WE KNOW IT? Now that Siebel Systems is sinking - sales drifting down, big investors unhappy, no apparent turnaround strategy, CEO Michael Lawrie booted out the door after less than a year - is customer relationship management headed for a fall too?

At first glance, it doesn't look that way. It looks a lot like Siebel's troubles are, well, just Siebel's. Lots of other companies, both vendors and customers, are doing fine with CRM.

Aren't they?

After all the idea behind CRM is solid maybe even brilliant. Customers are where the money comes from. We all want to get as much money as we can from them and to keep our best customers as long as possible. That's what the best salespeople have always done.

So using technology to help salespeople stay close to customers, to cross-sell and track each customer's value, doesn't just make lots of sense. Implemented right, it should also make loss of dollars

It certainly made plenty of money for Siebel after the company invented packaged CRM. Siebel was riding a CRM rocket in the late 1990s. Then competitors took notice. SAP, Oracle and PeopleSoft ate away at Siebel's application sales on the high eod. Salesforce.com went on a tear through the market for Web-based CRM, which is focused on smaller customers And since 2001, Siebel has lost 40% of its revenue and employees.

What was wrong? Why couldn't Siebel mansee relationships with its own customers? A year ago, the theory was that Siebel's cutthroat sales culture was driving potential buyers to its competitors. That's when founder Tom Siebel was replaced as CEO by Lawrie, a longtime IRM sales exec who was supposed to cozy up

to the customers It didn't work. Now Lawrie is out. replaced by former Andersen Consulting CEO George Shaheen, Does this mean Siebel will shift toward services - consulting and Webbased CRM? Or is Shaheen the unlikely choice to revitalize Siebel's flauship CRM software? Or is he a placeholder CEO who will soruce the company up for sale to SAP. 18M or Microsoft? Those are urgent questions for Siebel customers.

But they're missing the point. Sighal was built inside and out. on CRM. Stebel was all about automating CRM as a business process.

Trouble is, customer relationship management isn't primarily a business process that can be automated. Real management of customer relationships is a culture, a strategy, a way of

doing business And too many organizations use CRM in a way that marketing guru Herschell Gordon Lewis has dubbed CEM - customer climina-

They don't use CRM software to help good salesmen do a great job. Instead, they feed customers into the CRM sausane machine, a mechanical data-grinder that combines a phony familiarity - strangers in a call center who know everything about the customer - with a relent-

less, robotized drive to sell, sell, sell. It's the sales approach that drove Siebel's earby success, it's the model built into Siebel's software, and every other CRM product. It couldn't last. It failed Siebel. And without a radical overhaul, it will fail every CRM vendor - and every CRM user too. What customer wants to keep

doing business with a mechanical salesman? That's not what the salespeople we support need. They need what CRM software promised:

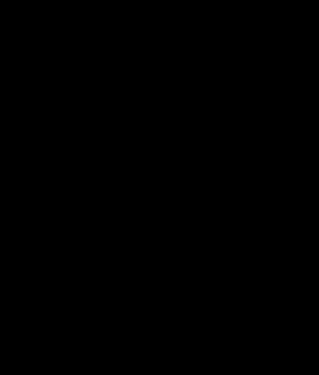
technology that really does help them with customers by supporting a customer relationship culture, not just automating a process. That's what Siebel needs too, in

more ways than one. If Siebel is to survive, it will have to abandon old-school CRM and reinvent it as a better way for people to sell to people. Then Siebel will have to build that into both its products and its own way of selling them.

Because CRM-as-we-know-it is dead - and deadly. And it will take Siebel, and more than a few CRM customers, with it. O 53788

That's Just Wrong

Quality department employee has been on the job for several months when she calls IT because she can't log onto the central menufacturing system - she can't recall her user ID. "The user ID is the last name and first mitel of the employee," says support plot fish. So what could be wrong? "Investigation reveals that the quality manager originally gave IT an incorrect spelling of her name," fish sighs, "and she couldn't ber the valid incorrect spelling?



FRANK HAYES . FRANKLY SPEAKING

Death of a Salesman

S THIS THE END FOR CRM AS WE KNOW IT? Now that Siebel Systems is sinking - sales drifting down, big investors unhappy, no apparent turnaround strategy, CEO Michael Lawrie booted out the door after less than a year - is customer relationship management headed for a fall too?

At first glance, it doesn't look that way. It looks a lot like Siebel's troubles are, well, just Siebel's. Lots of other companies, both vendors and customers, are doing fine with CRM.

Aren't they?

After all, the idea behind CRM is solid maybe even brilliant. Customers are where the

money comes from. We all want to get as much money as we can from them and to keep our best customers as long as possible. That's what the best salespeople have always done.

So using technology to help salespeople stay close to customers, to cross-sell and track each customer's value, doesn't just make lots of sense. Implemented right, it should also make lots of dollars.

It certainly made plenty of money for Siebel after the company invented packaged CRM. Siebel was riding a CRM rocket in the late 1990s. Then competitors took notice. SAP, Oracle and PeopleSoft ate away at Siebel's application sales on the high end. Salesforce.com went on a year through the market for Web-based CRM, which is focused on smaller customers.

And since 2001, Siebel has lost 40% of its revenue and employees.

What was wrong? Why couldn't Siebel manage relationships with its own customers? A year ago, the theory was that Siebel's cutthroat sales culture was driving potential buyers to its competitors. That's when founder Tom Siebel was replaced as CEO by Lawrie, a longtime IBM sales exec who was supposed to cozy up

to the customers It didn't work. Now Lawrie is out, replaced by former Andersen Consulting CEO George Shaheen. Does this mean Siebel will shift toward services - consulting and Webbased CRM? Or is Shaheen the unlikely choice to revitalize Siebel's flambio CRM software? Or is be a placeholder CEO who will spruce the company up for sale to SAP, IBM or Microsoft? Those are urgent meetions for Siebel customers.

But they're missing the point. Siebel was built, inside and out, on CRM. Siebel was all about automating CRM as a business process.

Trouble is customer relationship management isn't primarily a business process that can be automated. Real management of customer

relationships is a culture, a strategy, a way of doing business. And too many organizations use CRM in a

way that marketing guru Herschell Gordon Lewis has dubbed CEM - customer elimination management. They don't use CRM software to belp good

salesmen do a great job. Instead, they feed customers into the CRM sausage machine, a mechanical data-grinder that combines a phony familiarity - strangers in a call center who know everything about the customer - with a relentless, robotized drive to sell, sell, sell,

It's the sales approach that drove Siebel's ear ly success. It's the model built into Siebel's software, and every other CRM product. It couldn't last. It failed Siebel. And without a radical overhaul, it will fail every CRM vendor - and every CRM user, too. What customer wants to keep doing business with a mechanical salesman?

That's not what the salespeople we support need. They need what CRM software prom

technology that really does help them with customers by supporting a customer relationship culture, not just automating a process.

That's what Siebel needs too, in more ways than one. If Siebel is to survive, it will have to abandon old-school CRM and reinvent it as a better way for people to sell to people. Then Siebel will have to uild that into both its products and its own way of selling them.

Because CRM-as-we-know-it is dead - and deadly. And it will take Siebel, and more than a few CRM mers, with it. O 53786



SONY





DataArmor.

Your business deserves the best protection you can get. Data Media from Sony. Our A3MP Advanced Alloy Armored Metal Particle technology resolutely guards your data on our new LTO" Ultrium" 3 cartridge And our Super Orientation technology optimizes every 1 and 0. Sony offers the same level of vigorous data protection in all of our half-inch data storage formats. Sony even protects your peace of mind with our Media Suite" services - including bar coding, training, transfer and migration, and workmanship limited wereardy - to increase your productivity and protect your most valuable information. Plus, our Storage Rewards** customer lovelty program enhances your bottom line with valuable assets and incentives. So protect your business and protect yourself. With Sony Data Media

For more information on Media Suite services and our Storage Rewards program, visit WWW.SONY.COM/LT03. Register today for our free web-based LT03 training and receive a free LTO3 cartridge when you complete your training!

LIKE NO OTHER



Oracle Application Server

SAP NetWeaver Exposed

ABAP?

DYNPRO?

ALE?

RFC?

BSP?

These are not technology standards.

Oracle 10g - complete, standard and internet ready.



oracle.com/appserver or call 1.800.633.0759